ORDER NO. AD9707103C2

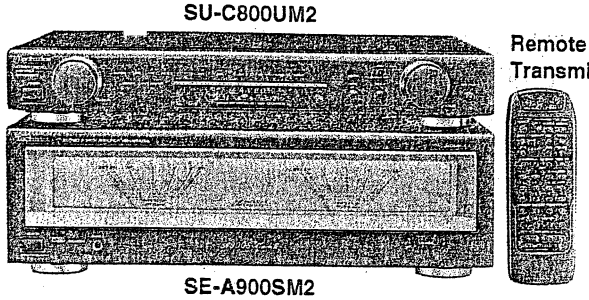
# Service Manual

Amplifier

## Control Amplifier

### System: SU-A900DM2

SU-C800UM2



Remote Control Transmitter

SE-A900SM2

**Colour**
(K).....Black Type

**Area**
(E) ..... Europe.

### System: SU-A900DM2

| | |
|---|---|
| Control amplifier | **SU-C800UM2** |
| Power amplifier | **SE-A900SM2** |

**Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.**

## Specifications (DIN 45 500)

| | |
|---|---|
| **Total harmonic distortion 20 Hz – 20 kHz** | 0.01 % (Vol. Max.) |
| **Input sensitibity/impedance** | |
| **PHONO** | 2.5 mV/47 kΩ |
| **TUNER, CD, AUX, TAPE 1, TAPE 2** | 200 mV/27 kΩ |
| **Phono maximum input voltage (1 kHz, RMS)** | 150 mV |
| **S/N** | |
| **PHONO** | 76 dB (77 dB, IHF '66) |
| **TUNER, CD, AUX, TAPE 1, TAPE 2** | 90 dB (97 dB, IHF '66) |
| **Frequency response** | |
| **PHONO** | RIAA standard curve ±1 dB (30 Hz – 15 kHz) |
| **TUNER, CD, AUX, TAPE 1, TAPE 2** | 3 Hz – 80 kHz (+0, – 3 dB) |
| | +0 dB, – 0.3 dB (20 Hz – 20 kHz) |
| **Tone controls** | |
| **BASS** | 50 Hz, +10 dB, –10 dB |
| **TREBLE** | 20 kHz, +10 dB, –10 dB |
| **Muting** | – ∞ |
| **Output voltage** | |
| **TAPE 1, TAPE 2, REC OUT** | 200 mV |
| **PRE OUT1, 2** | 1 V |
| **Channel balance (AUX, 250 Hz – 6.3 kHz)** | ±1 dB |
| **Channel separation (AUX, 1 kHz)** | 50 dB |
| **■ GENERAL** | |
| **Dimensions (W × H × D)** | 430 × 69.3 × 307 mm |
| **Weight** | 2.7 kg |

**Notes:**
1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

**⚠WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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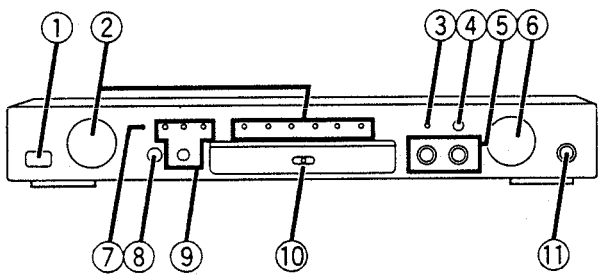
# ■ Contents


| | Page |
|---|---|
| Front Panel Controls | 2 |
| Operation Check and Main Component Replacement Procedures | 3, 4 |
| To Supply Power Source | 5 |
| Terminal Function of IC's | 6 |
| Schematic Diagram | 6 – 10 |
| Printed Circuit Board Diagram | 11, 12 |
| Wiring Connection Diagram | 13 |
| Type Illustration of IC's, Transistors and Diodes | 13 |
| Block Diagram | 14 |
| Replacement Parts List (Electrical) | 15 , 16 |
| Replacement Parts List (Cabinet) | 16 |
| Replacement Parts List (Resistors and Capacitors) | 17 |
| Cabinet Parts Location | 18 |


**NOTE:**
**Refer to the service manual for Model No. SE-A900SM2 (ORDER No. AD9707099C2) or SE-A800SM2 (ORDER No. AD9707098C2) for information on "Accessories", "Connections" and "Packaging".**

# ■ Front Panel Controls




**① Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

**Note**

The control amplifier switches between ON and the standby mode only if the power amplifier POWER switch is in the " ▬ ON" position.

**② Input selector/indicators (SELECTOR)**
**③ Muting indicator (MUTING)**
**④ Tone control button (TONE)**
**⑤ Tone controls (BASS, TREBLE)**
**⑥ Volume control (VOLUME)**
**⑦ "STANDBY" indicator (STANDBY)**
When the power amplifier POWER switch is in the " ▬ ON" position, this indicator lights up in standby mode and goes out when the unit is turned on.
**⑧ Remote control signal sensor (SENSOR)**
**⑨ Tape-monitor button/indicators (TAPE MONITOR)**
**⑩ "ADVANCED VIRTUAL BATTERY OPERATION" indicator**
**⑪ Balance control (BALANCE)**

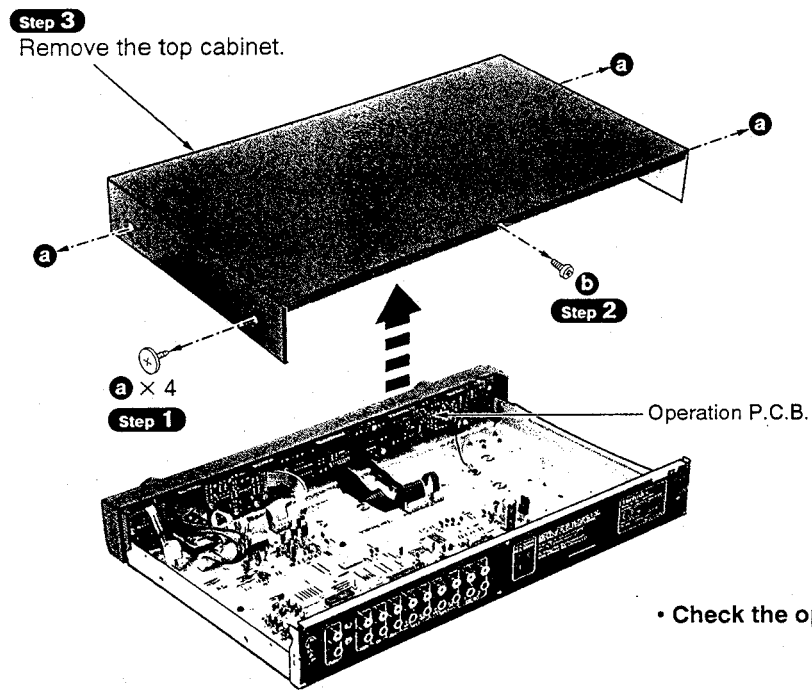
# ■ Operation Check and Main Component Replacement Procedures

**NOTE**

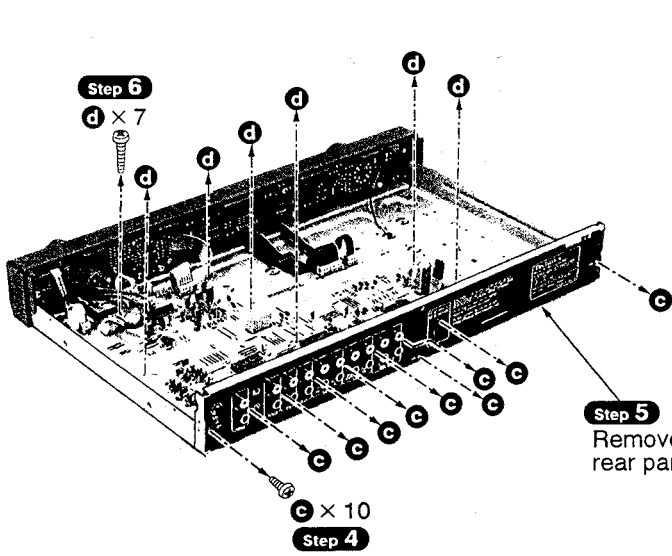
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.

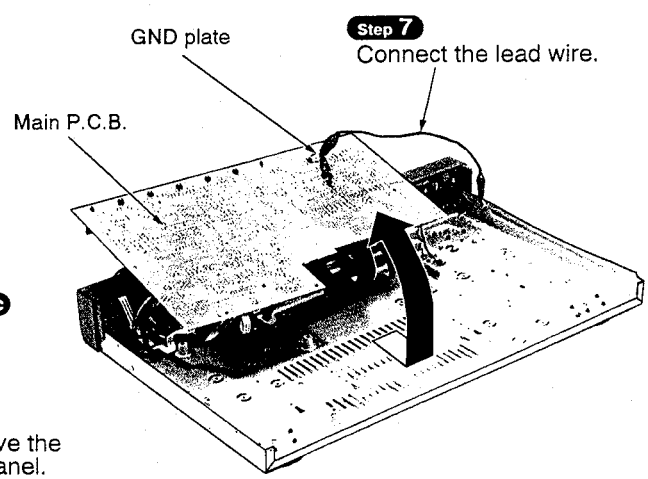
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

## 1. Checking for the operation P.C.B. and main P.C.B.




• Check the operation P.C.B. this condition.

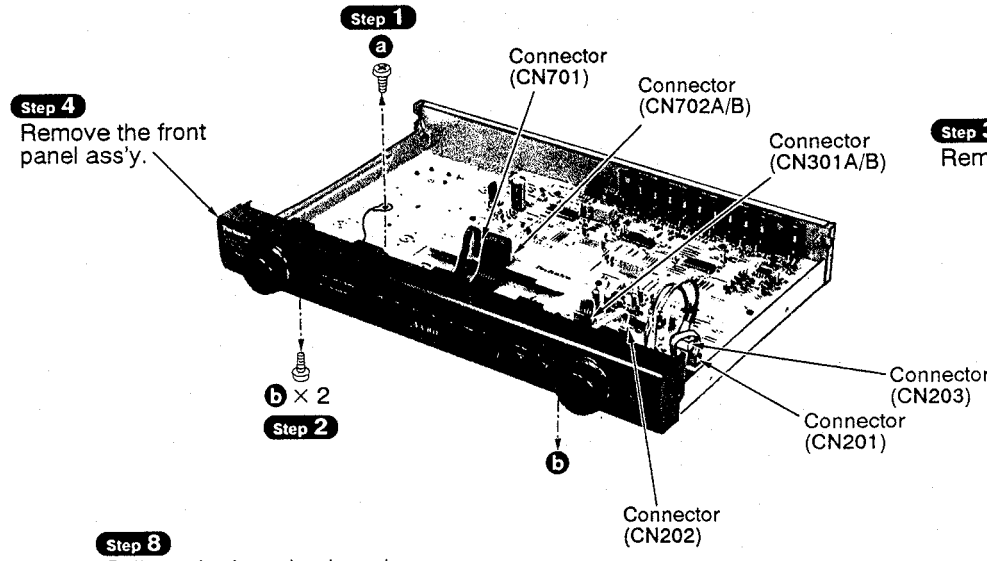


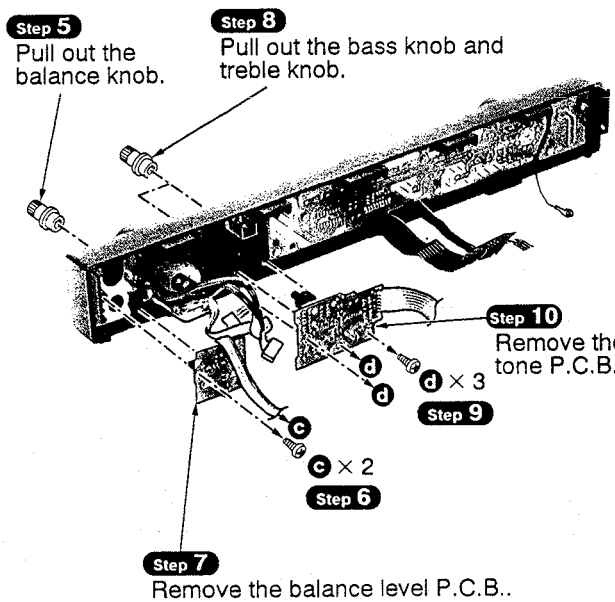



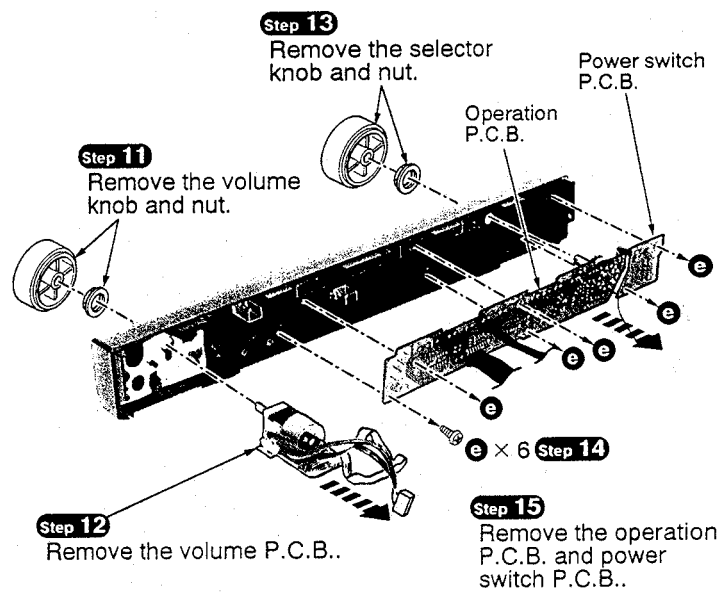

• Check the main P.C.B. as shown above.

## To remove each P.C.B.

• Follow the Step 1 ~ Step 3 in item 1 on page 3.



# ■ To Supply Power Source

**This unit SU-C800UM2 is designed to operate on power supplied from the Power Amplifier SE-A900SM2 or SE-A800SM2.**
**When operating the unit SU-C800UM2 alone for testing and servicing, without having power supplied from the Power Amplifier SE-A900SM2 or SE-A800SM2, use the following method.**

## Power Supply to Main Circuit

1. Apply 11 V AC power to the section between the point TP1 and the point TP2.
2. Connect the DC +12 V to +15 V (more than 0.1 A) to the point TP5, and the GND terminal to the point TP4 using the DC power supply.
3. Connect the DC −12 V to −15 V (more than 0.1 A) to the point TP3, and the GND terminal to the point TP4 using the DC power supply.

## Operation Check

1. Input a signal (1 kHz, 100 mV) to the each line-in terminal.
3. Connect the oscilloscope or the speaker with the built-in amplifier to the PRE OUT terminals and check if the signals are outputting from this unit.

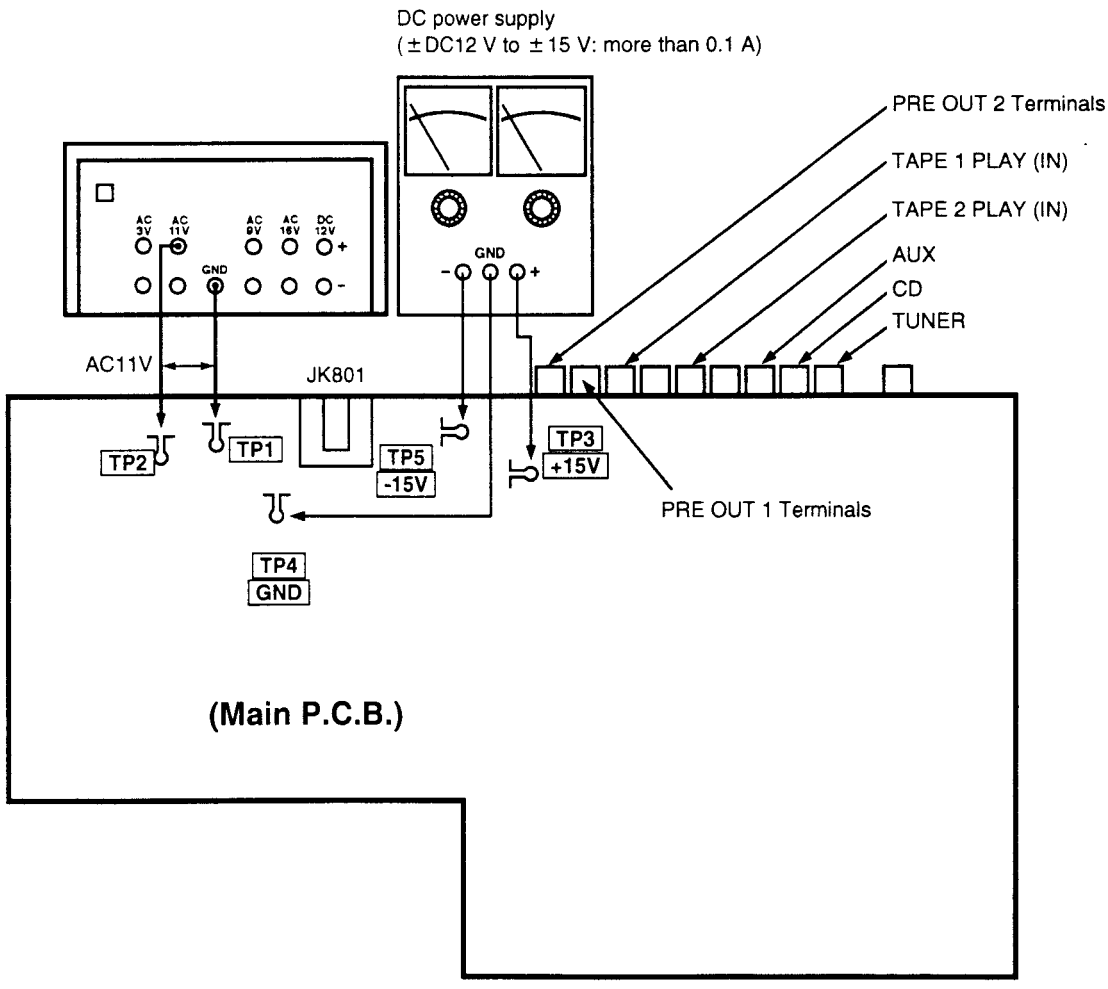



**Fig. 1**

# ■ Terminal Function of IC's

## ● IC701 (M37470M2362S)

| Pin No. | Terminal Name | I/O | Function |
|---|---|---|---|
| 1 | SDATA | O | Data signal output for input select IC (IC201 and IC202) |
| 2 | CLOCK | O | Clock signal output for input select IC (IC201 and IC202) |
| 3 | STB | O | Storobe signal output for input select IC (IC201 and IC202) |
| 4 | SELLED2 | O | Input select LED drive signal output |
| 5 | SELLED1 | | |
| 6 | SELLED0 | | |
| 7 | VRDOWN | O | Motor drive signal output (Volume down) |
| 8 | VRUP | O | Motor drive signal output (Volume up) |
| 9 | ASWMUTE | O | Audio signal muting signal output |
| 10 | BATLVL1 | I | Not used, connect to GND |
| 11 | KEYAD | I | Power switch and Tape monitor switch signal |
| 12 | RSWAD | I | Input selector switch (S804) signal input |
| 13 | VREF | I | Reference voltage input |
| 14 | XIN | I | Connect to the ceramic oscillator |
| 15 | XOUT | O | |
| 16 | GND | — | Connect to GND |

| Pin No. | Terminal Name | I/O | Function |
|---|---|---|---|
| 17 | VCC | I | Power supply (+5V) |
| 18 | RESET | I | Systen reset signal input |
| 19 | BACKUP | I | Power failure detect signal input |
| 20 | REMCON | I | Remote control signal input |
| 21 | BATLVL2 | I | Not used, connect to GND |
| 22 | CS | I | Chip select signal input (Connect to GND) |
| 23 | MUTLED | O | Muting LED (D711) drive signal output |
| 24 | SRCELED | O | Source LED (D810) drive signal output |
| 25 | TP2MLED | O | Tape 2 LED (D811) drive signal output |
| 26 | TP1MLED | O | Tape 1 LED (D812) drive signal output |
| 27 | BATFLED | O | Not used, connect to GND |
| 28 | BATELED | | |
| 29 | BATRLY | | |
| 30 | CHRGRLY | | |
| 31 | OPTRLY | O | Relay drive signal output |
| 32 | PWRRLY | O | Power control signal output |

# ■ Schematic Diagram


Page

A MAIN CIRCUIT ..... 7 – 10
B TONE SWITCH CIRCUIT ..... 8, 9
C VOLUME CIRCUIT ..... 8
D BALANCE VR CIRCUIT ..... 8
E POWER SWITCH CIRCUIT ..... 8
F OPERATION CIRCUIT ..... 8, 9


- **This schematic diagram may be modified at any time with the development of new technology.**

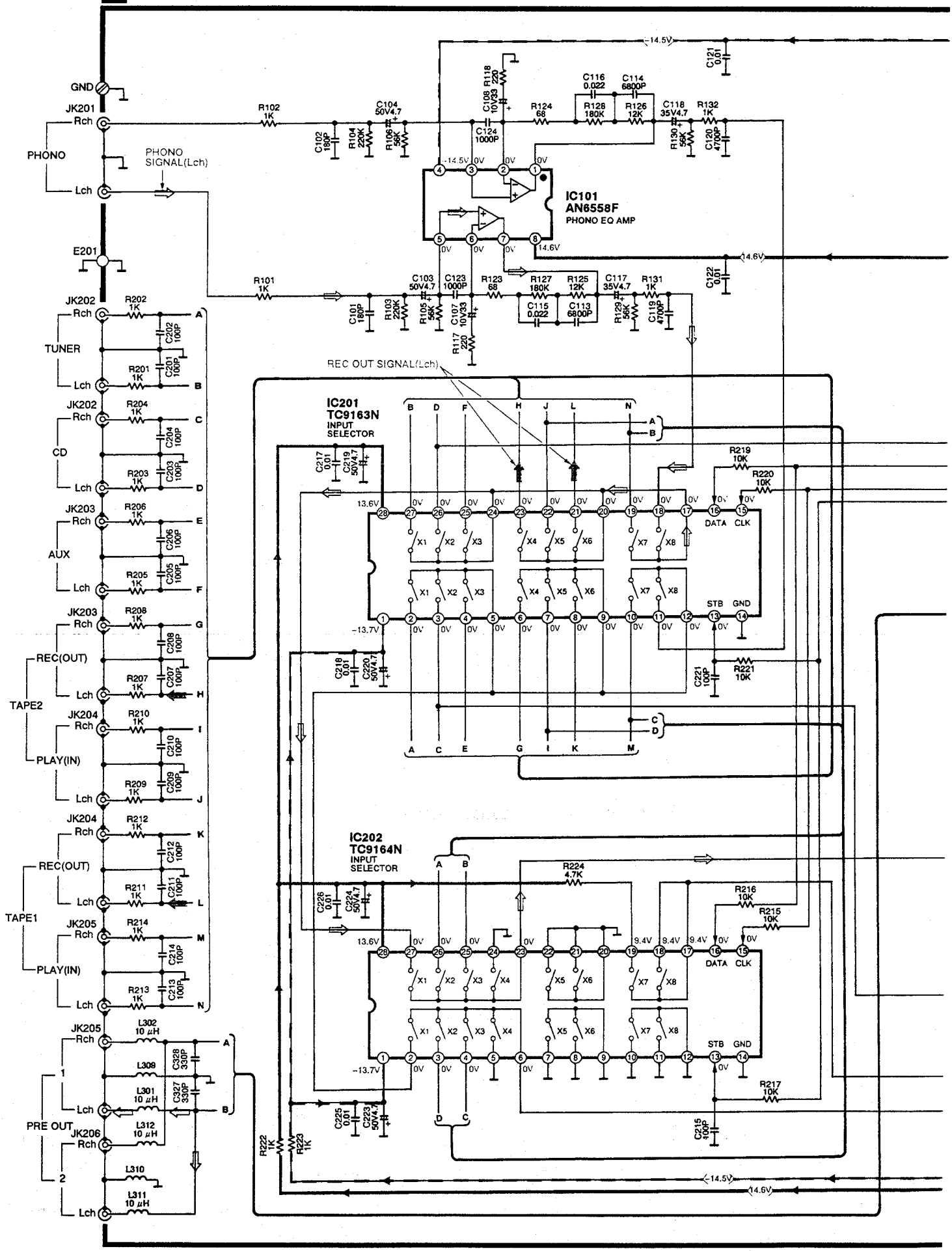
**Notes:**

- **S301** : Tone control switch (TONE ▙:DEFEAT, ▁:ON)
- **S801** : Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON)
- **S802** : Tape monitor switch (TAPE MONITOR)
- **S804** : Input select switch (SELECTOR)
- **VR201** : Volume control VR (VOLUME)
- **VR202** : Balance control VR (BALANCE)
- **VR301** : Tone control VR (BASS)
- **VR302** : Tone control VR (TREBLE)
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  No mark: Power ON
- Voltage and signal line

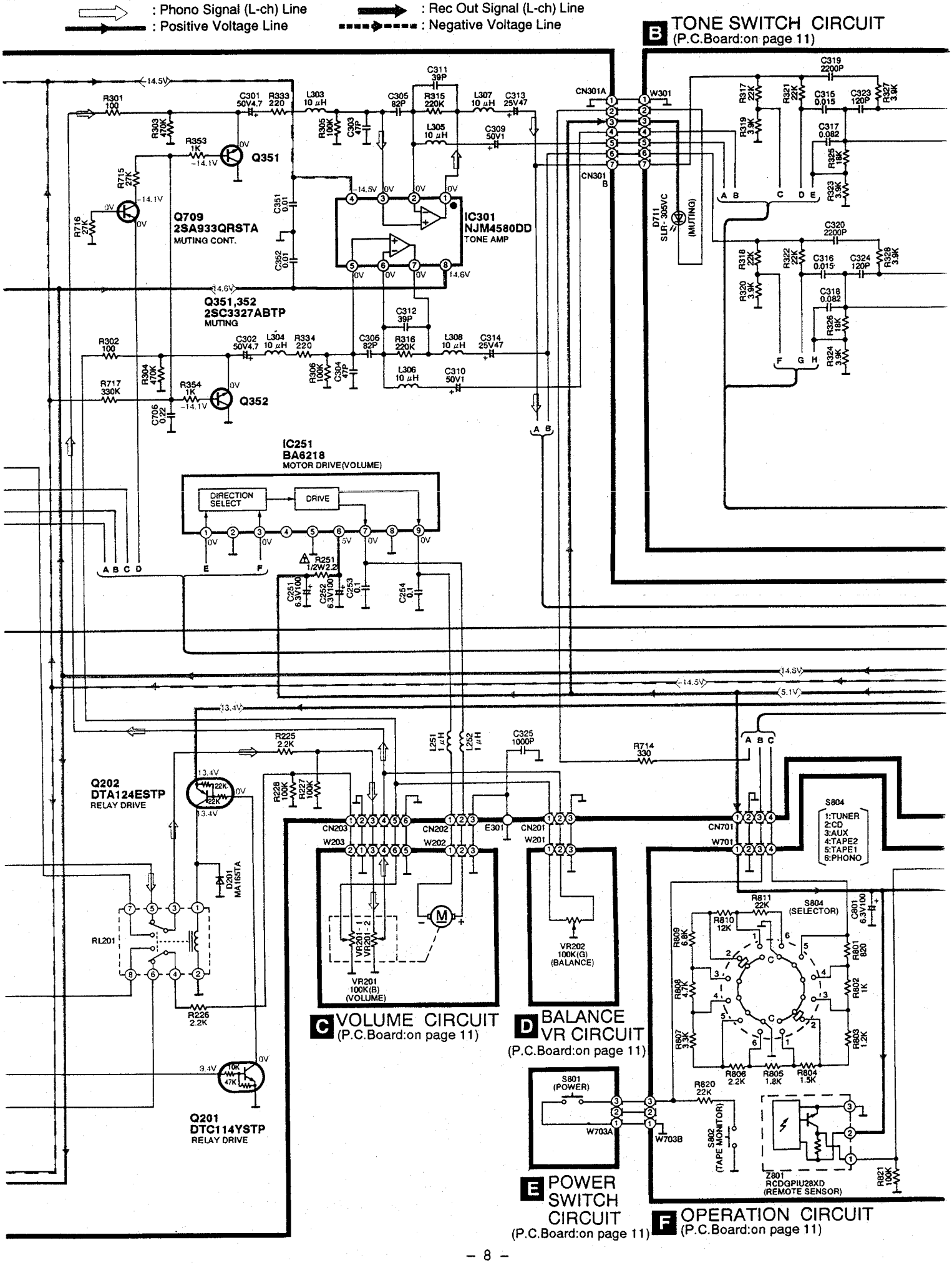
  : Phono Signal (L-ch) Line
  : Rec Out Signal (L-ch) Line
  : Positive Voltage Line
  : Negative Voltage Line

- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.

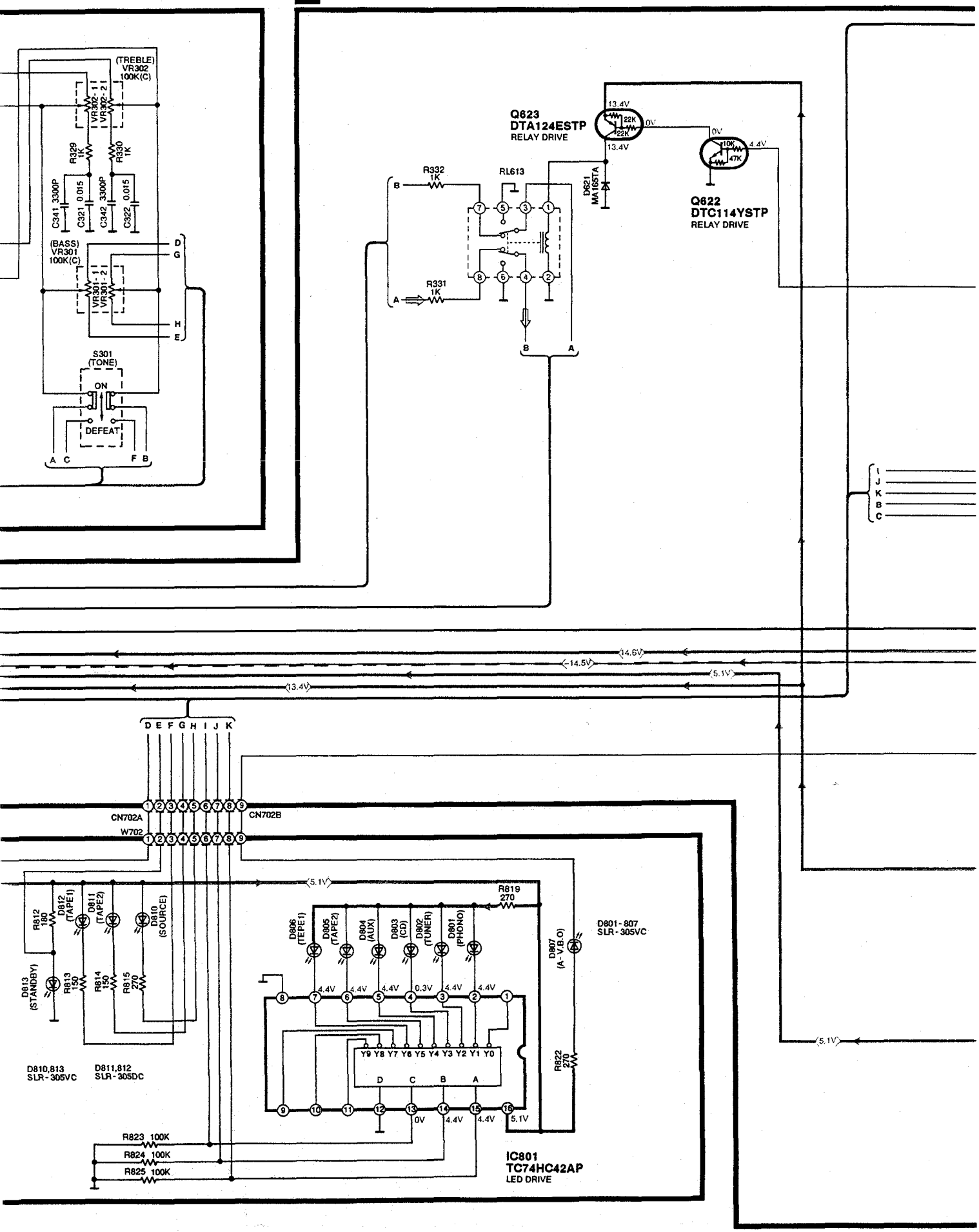
## A MAIN CIRCUIT (P.C.Board:on page 12)



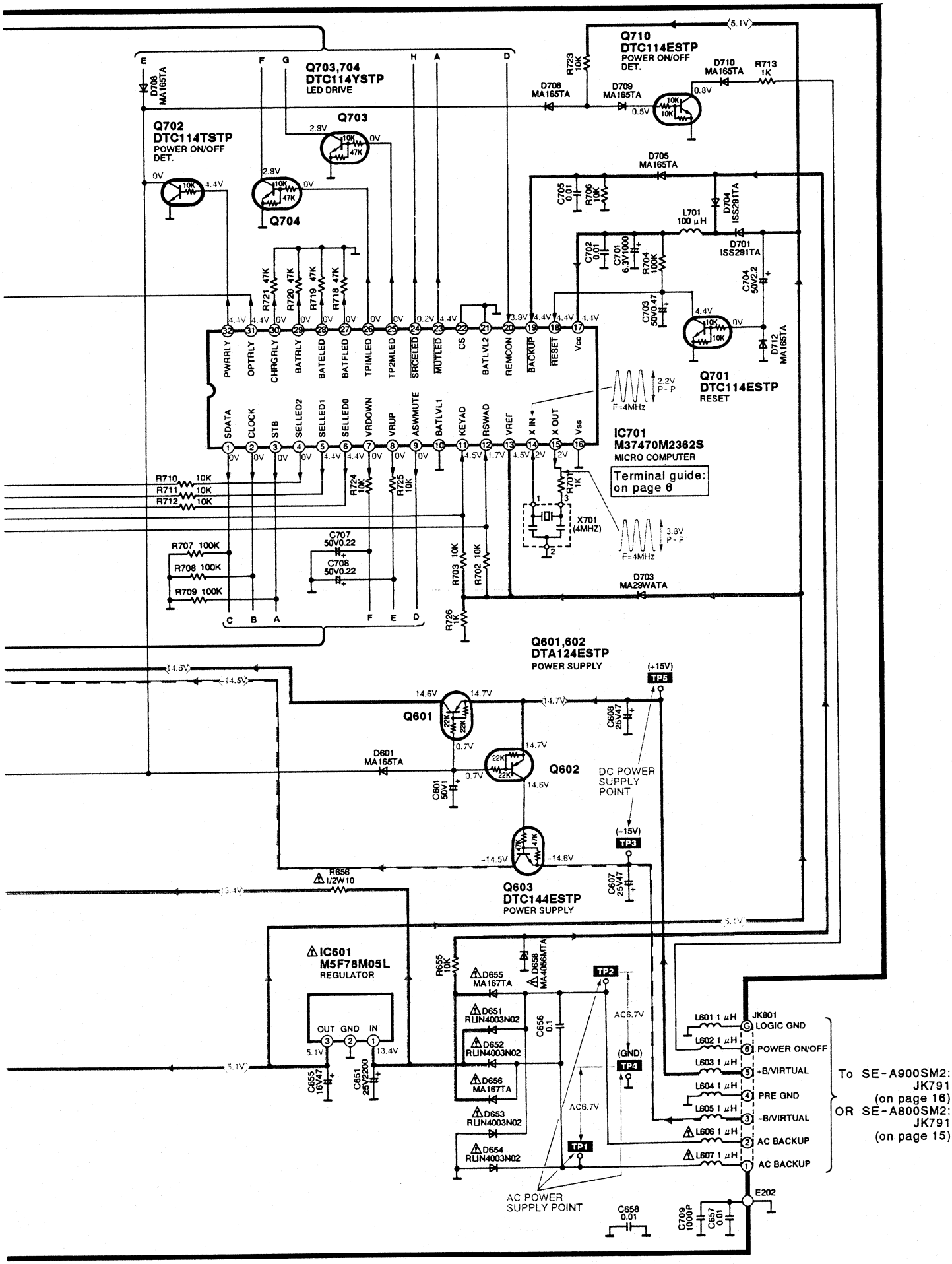
: Phono Signal (L-ch) Line
: Positive Voltage Line
: Rec Out Signal (L-ch) Line
: Negative Voltage Line



## A MAIN CIRCUIT (P.C.Board:on page 12)



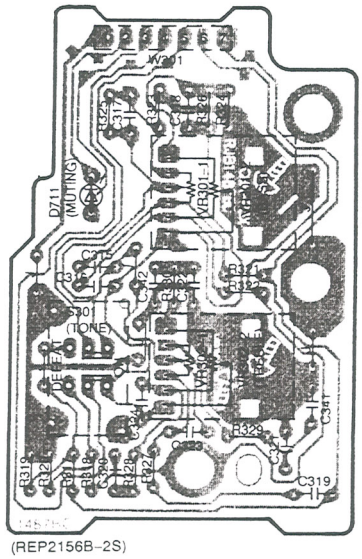
: Phono Signal (L-ch) Line
: Positive Voltage Line
: Rec Out Signal (L-ch) Line
: Negative Voltage Line



# ■ Printed Circuit Board Diagram

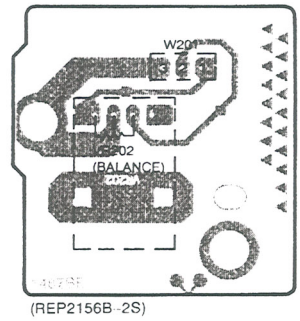
• This circuit board diagram may be modified at any time with the development of new technology.

## B TONE SWITCH P.C.B.



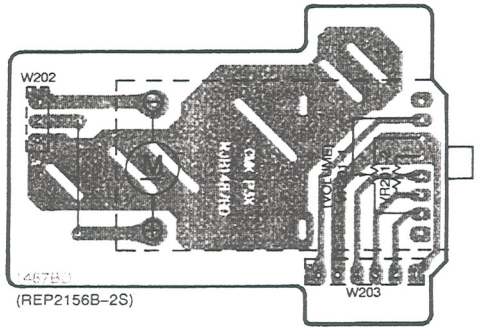

(REP2156B-2S)

## D BALANCE VR P.C.B.



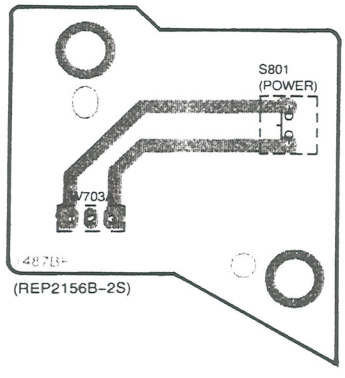

(REP2156B-2S)

## C VOLUME P.C.B.



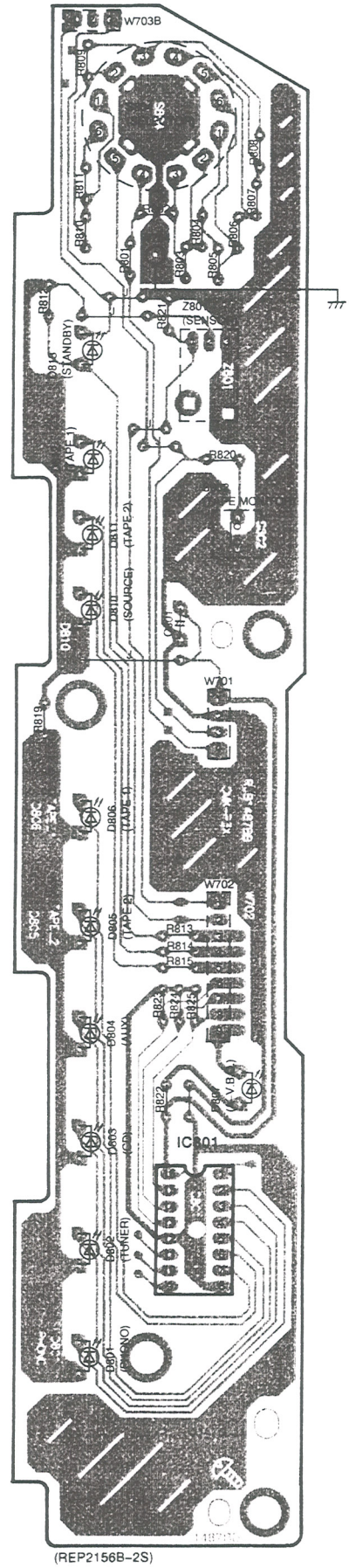

(REP2156B-2S)

## E POWER SWITCH P.C.B.




(REP2156B-2S)

## F OPERATION P.C.B.

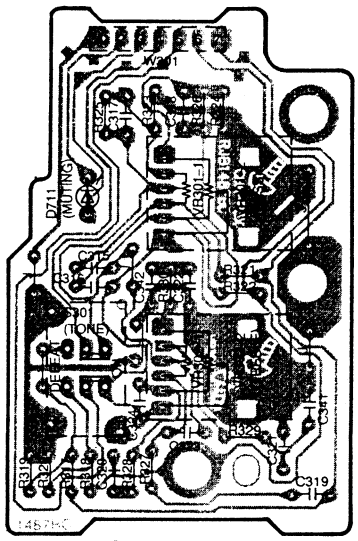



(REP2156B-2S)

# ■ Printed Circuit Board Diagram

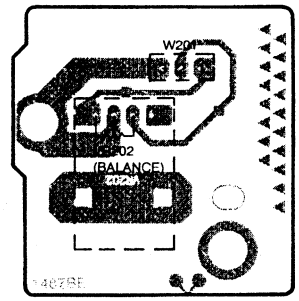
• This circuit board diagram may be modified at any time with the development of new technology.

## B TONE SWITCH P.C.B.



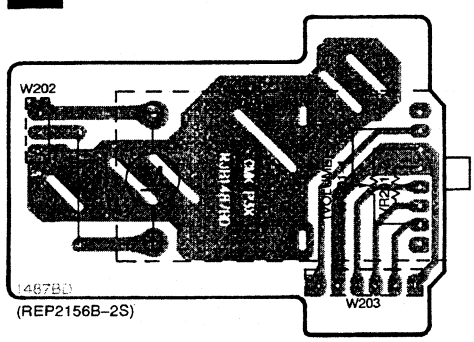

(REP2156B-2S)

## D BALANCE VR P.C.B.



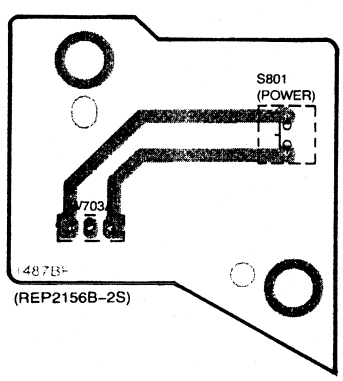

(REP2156B-2S)

## C VOLUME P.C.B.



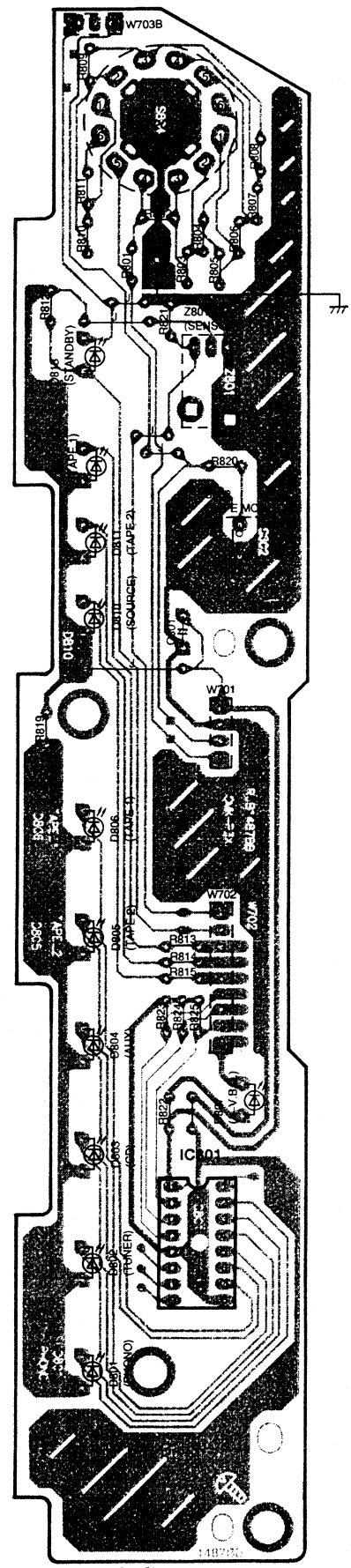

(REP2156B-2S)

## E POWER SWITCH P.C.B.



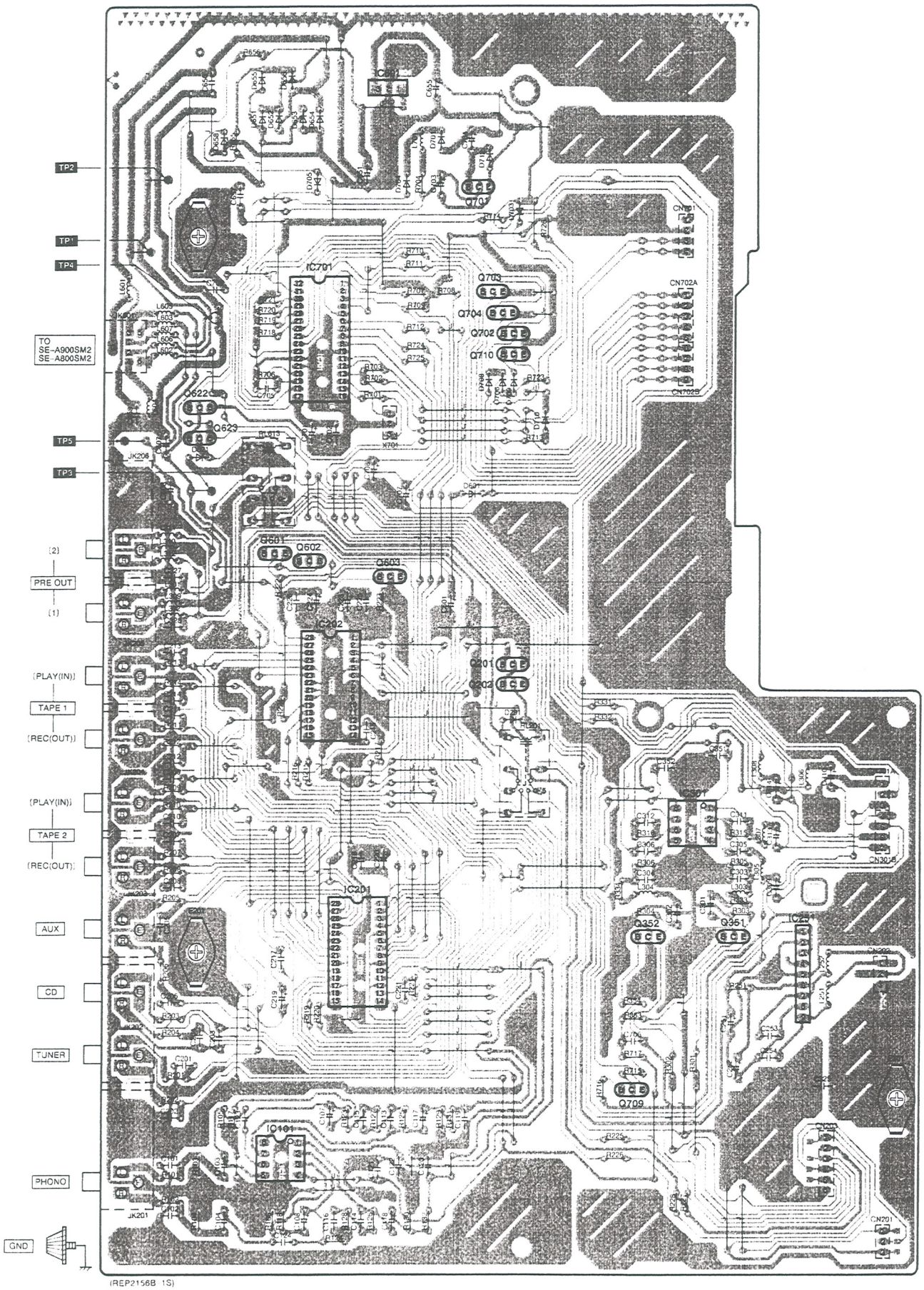

(REP2156B-2S)

## F OPERATION P.C.B.



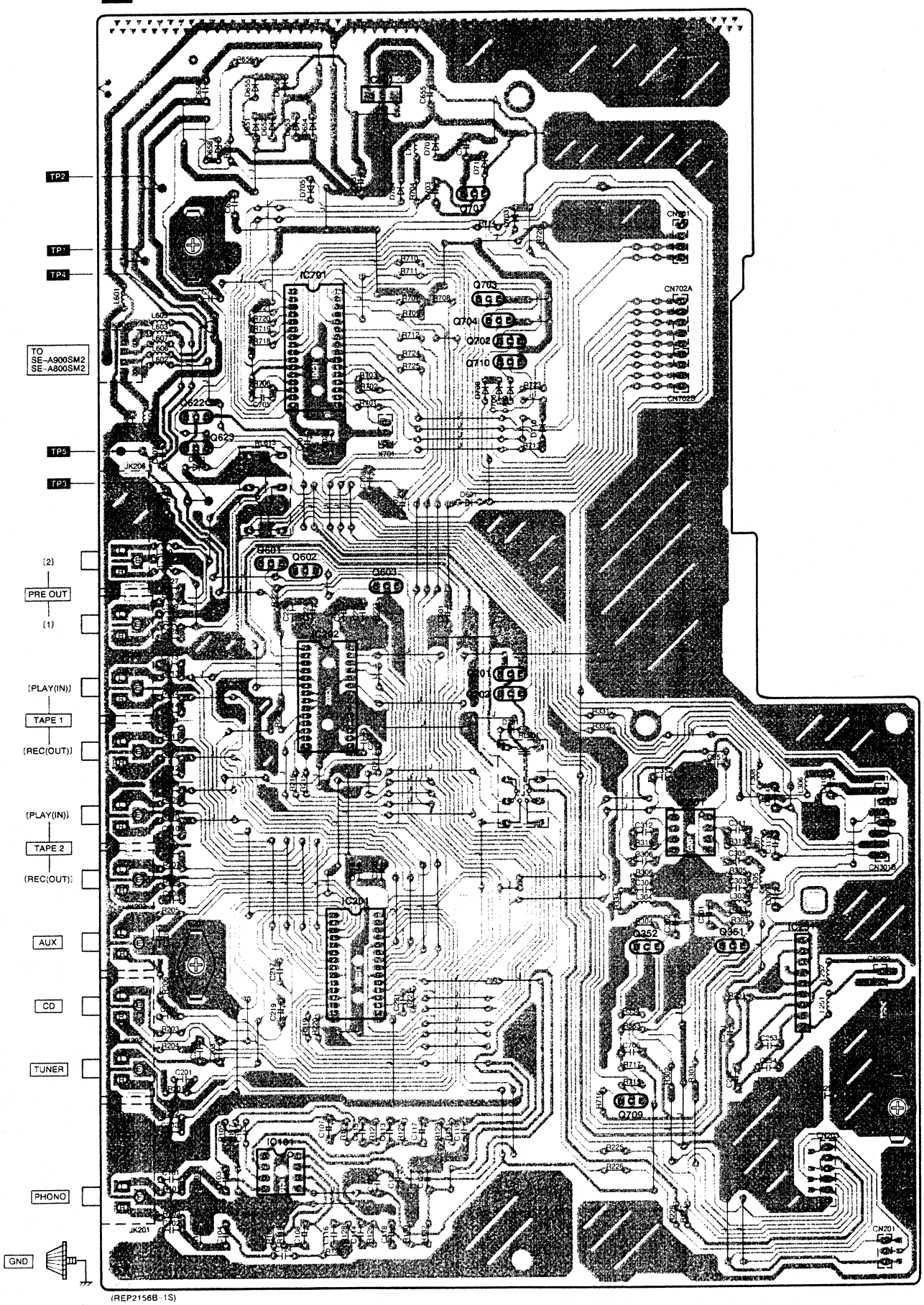

(REP2156B-2S)

## A MAIN P.C.B.




(REP2156B 1S)

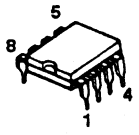
## A MAIN P.C.B.



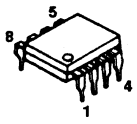

(REP2156B-1S)

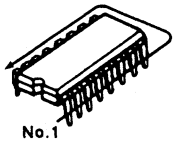
# ■ Type Illustration of IC's, Transistors and Diodes

AN6558F



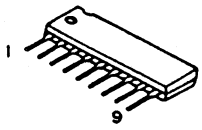

NJM4580DD



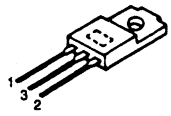




| | |
|---|---|
| TC74HC42AP | 16Pin |
| TC9163N | 28Pin |
| TC9164N | 28Pin |
| M37470M2332S | 32Pin |

BA6218




M5F78M05L

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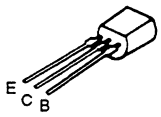
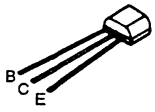
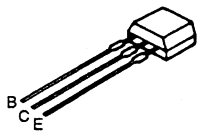


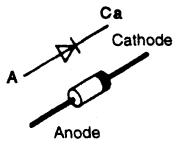

2SC3327-A



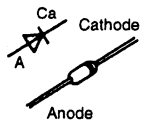




DTA124ESTP
DTC114ESTP
DTC114TS
DTC114YSTP
DTC144ESTP

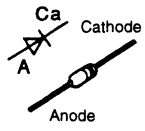
RL1N4003N02



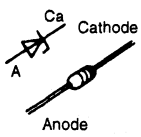

MA165
MA167
MA29WA



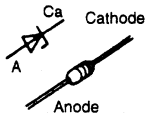

1SS291TA



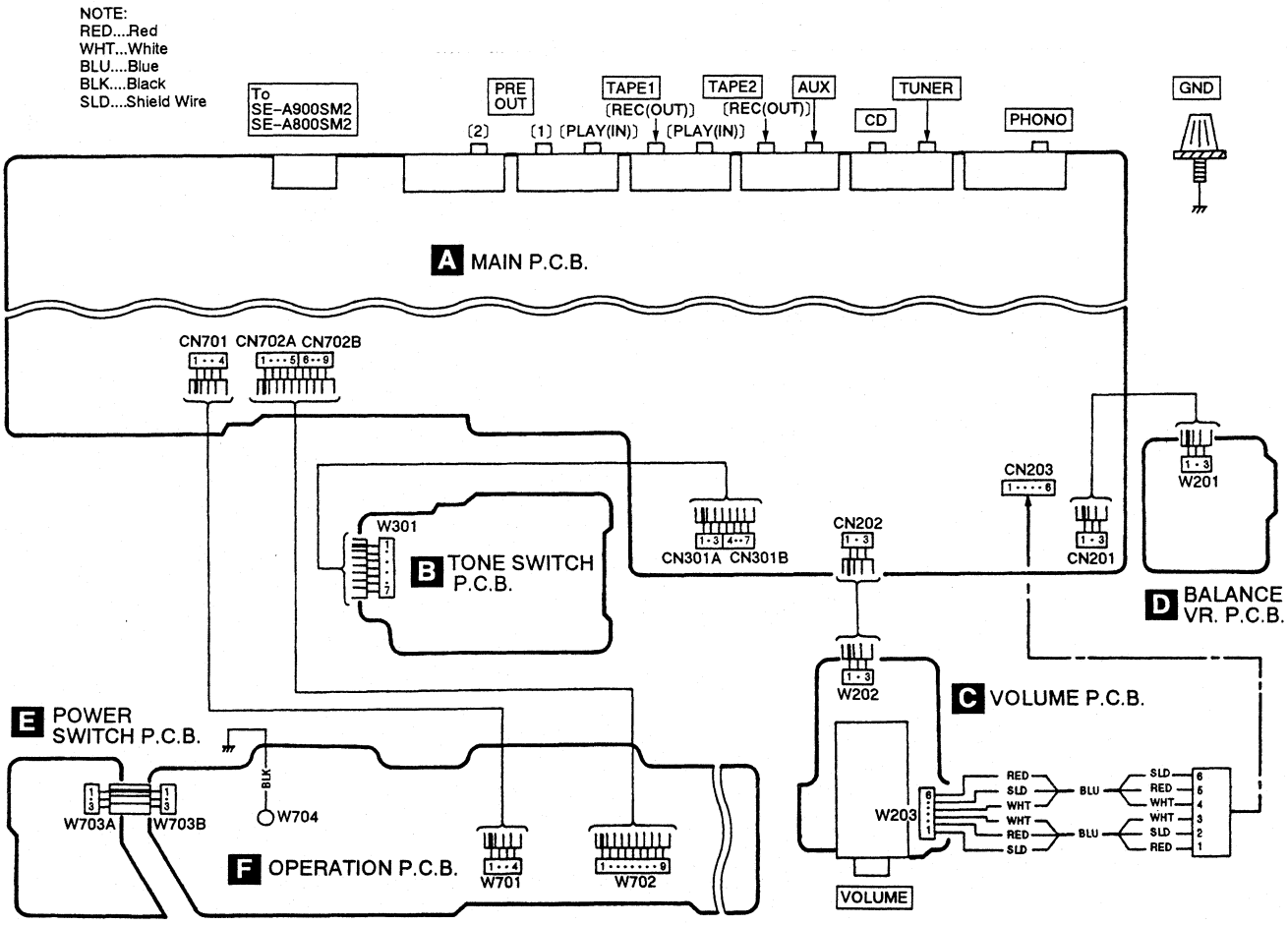

MA4056MTA



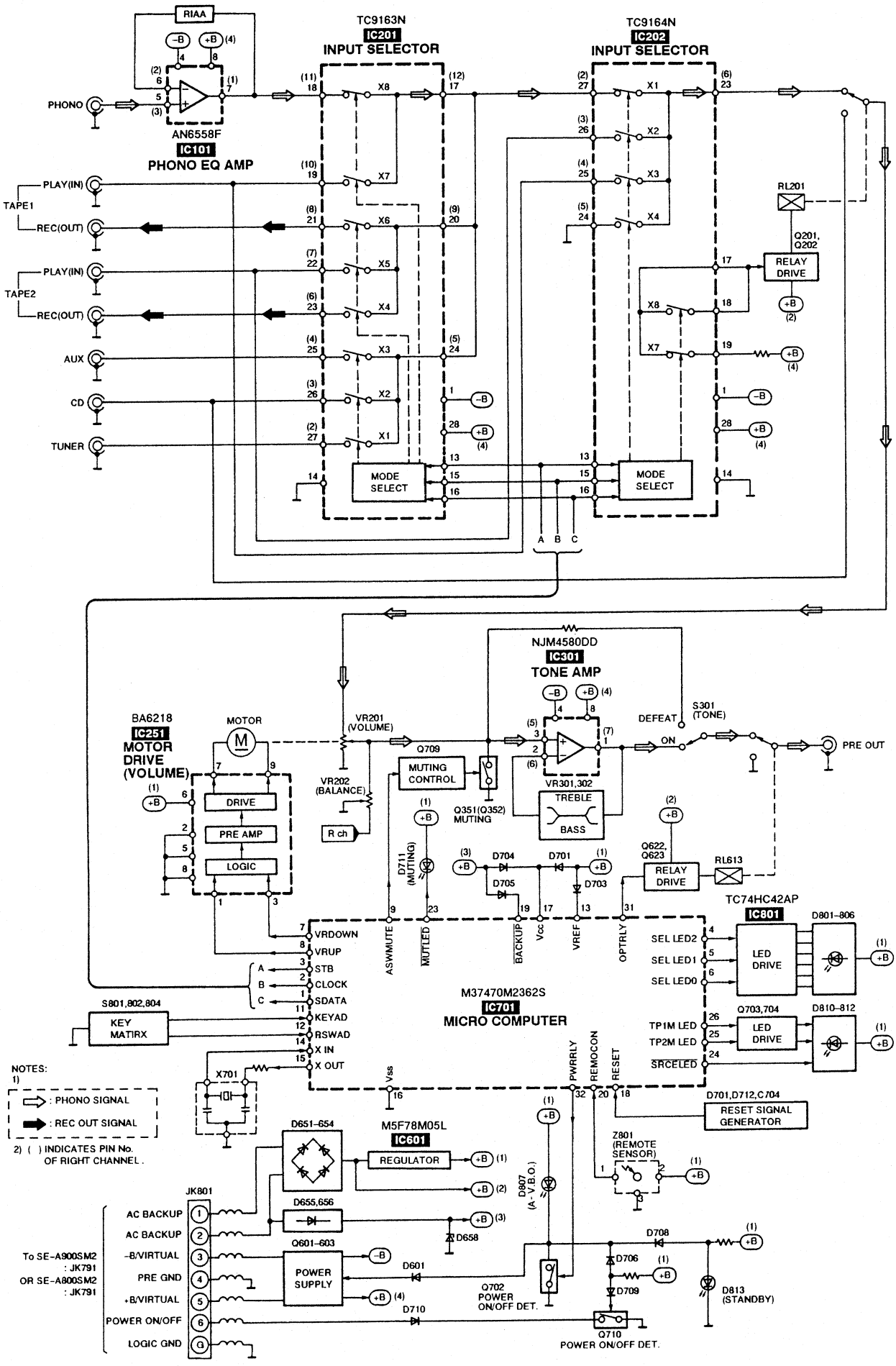

SLR-305DC
SLR-305VC




# ■ Wiring Connection Diagram



# ■ Block Diagram



# ■ Replacement Parts List (Electrical)

**Notes:** *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*[M] Indicates in Remarks columns parts that are supplied by MESA.

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | INTEGRATED CIRCUIT(S) | |
| | | | |
| IC101 | AN6558F | IC | [M] |
| IC201 | TC9163N | IC | [M] |
| IC202 | TC9164N | IC | [M] |
| IC251 | BA6218 | IC | [M] |
| IC301 | NJM4580DD | IC | [M] |
| IC601⚠ | M5F78M05L | IC | [M] |
| IC701 | M37470M2362S | IC | [M] |
| IC801 | TC74HC42AP | IC | [M] |
| | | | |
| | | TRANSISTOR(S) | |
| | | | |
| Q201 | DTC114YSTP | TRANSISTOR | [M] |
| Q202 | DTA124ESTP | TRANSISTOR | [M] |
| Q351, 352 | 2SC3327-A | TRANSISTOR | [M] |
| Q601, 602 | DTA124ESTP | TRANSISTOR | [M] |
| Q603 | DTC144ESTP | TRANSISTOR | [M] |
| Q622 | DTC114YSTP | TRANSISTOR | [M] |
| Q623 | DTA124ESTP | TRANSISTOR | [M] |
| Q701 | DTC114ESTP | TRANSISTOR | [M] |
| Q702 | DTC114TS | TRANSISTOR | [M] |
| Q703, 704 | DTC114YSTP | TRANSISTOR | [M] |
| Q709 | 2SA933QRSTA | TRANSISTOR | [M] |
| Q710 | DTC114ESTP | TRANSISTOR | [M] |
| | | | |
| | | DIODE(S) | |
| | | | |
| D201 | MA165 | DIODE | [M] |
| D601 | MA165 | DIODE | [M] |
| D621 | MA165 | DIODE | [M] |
| D651-654⚠ | RL1N4003N02 | DIODE | [M] |
| D655, 656⚠ | MA167 | DIODE | [M] |
| D658⚠ | MA4056MTA | DIODE | [M] |
| D701 | 1SS291TA | DIODE | [M] |
| D703 | MA29WA | DIODE | [M] |
| D704 | 1SS291TA | DIODE | [M] |
| D705, 706 | MA165 | DIODE | [M] |
| D708-710 | MA165 | DIODE | [M] |
| D711 | SLR-305VC | LED | [M] |
| D712 | MA165 | DIODE | [M] |
| D801-807 | SLR-305VC | LED | [M] |
| D810 | SLR-305VC | DIODE | [M] |
| D811, 812 | SLR-305DC | LED | [M] |
| D813 | SLR-305VC | LED | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | VARIABLE RESISTOR(S) | |
| | | | |
| VR201 | EUWMGEF20B15 | V. R | [M] |
| VR202 | EVJ02QF02G15 | V. R | [M] |
| VR301, 302 | EVJYA1F02C15 | V. R | [M] |
| | | | |
| | | COMPONENT COMBINATION(S) | |
| | | | |
| Z801 | RCDGP1U28XD | REMOTE SENSOR | [M] |
| | | | |
| | | COIL(S) | |
| | | | |
| L251, 252 | ELEXT1R0KA9 | COIL | [M] |
| L301-308 | RLQA100JT-Y | COIL | [M] |
| L309, 310 | BL02RN1R62T2 | COIL | [M] |
| L311, 312 | RLQA100JT-Y | COIL | [M] |
| L606, 607⚠ | ELEXT1R0KA9 | COIL | [M] |
| L701 | ELEXT101KA9 | COIL | [M] |
| | | | |
| | | OSCILLATOR(S) | |
| | | | |
| X701 | EF0GC4004A4 | OSCILLATOR | [M] |
| | | | |
| | | SWITCH(ES) | |
| | | | |
| S301 | ESB68047 | SW | [M] |
| S801, 802 | EVQPTD05Q | SW | [M] |
| S804 | RSR9A001-A | SW | [M] |
| | | | |
| | | CONNECTOR(S) | |
| | | | |
| CN201, 202 | RJS1A6603 | CONNECTOR(3P) | [M] |
| CN203 | SJT3611 | CONNECTOR(6P) | [M] |
| CN701 | RJS1A6604 | CONNECTOR(4P) | [M] |
| CN301A | RJS1A6603 | CONNECTOR(3P) | [M] |
| CN702A | RJS1A6605 | CONNECTOR(5P) | [M] |
| CN301B | RJS1A6604 | CONNECTOR(4P) | [M] |
| CN702B | RJS1A6604 | CONNECTOR(4P) | [M] |
| | | | |
| | | EARTH TERMINAL(S) | |
| | | | |
| E201, 202 | SNE1004-2 | EARTH TERMINAL | [M] |
| E301 | SNE1004-2 | EARTH TERMINAL | [M] |
| | | | |
| | | RELAY(S) | |

# ■ Replacement Parts List (Cabinet)

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| RL201 | RSY0020M-R | RELAY | [M] |
| RL613 | RSY0020M-R | RELAY | [M] |
| | | | |
| | | JACK(S) | |
| | | | |
| JK201 | SJF3069-11N | TERMINAL, PHONO | [M] |
| JK202 | SJF3069N | TERMINAL, TUNER/CD | [M] |
| JK203 | SJF3069N | TERMINAL, AUX/TAPE2/REC OUT | [M] |
| JK204 | SJF3069N | TERMINAL, TAPE1/TAPE2 | [M] |
| JK205 | SJF3069N | TERMINAL, TAPE1/PRE OUT1 | [M] |
| JK206 | SJF3069-11N | TERMINAL, PRE OUT2 | [M] |
| JK801 | RJS1D0706 | SOCKET, SYSTEM | [M] |

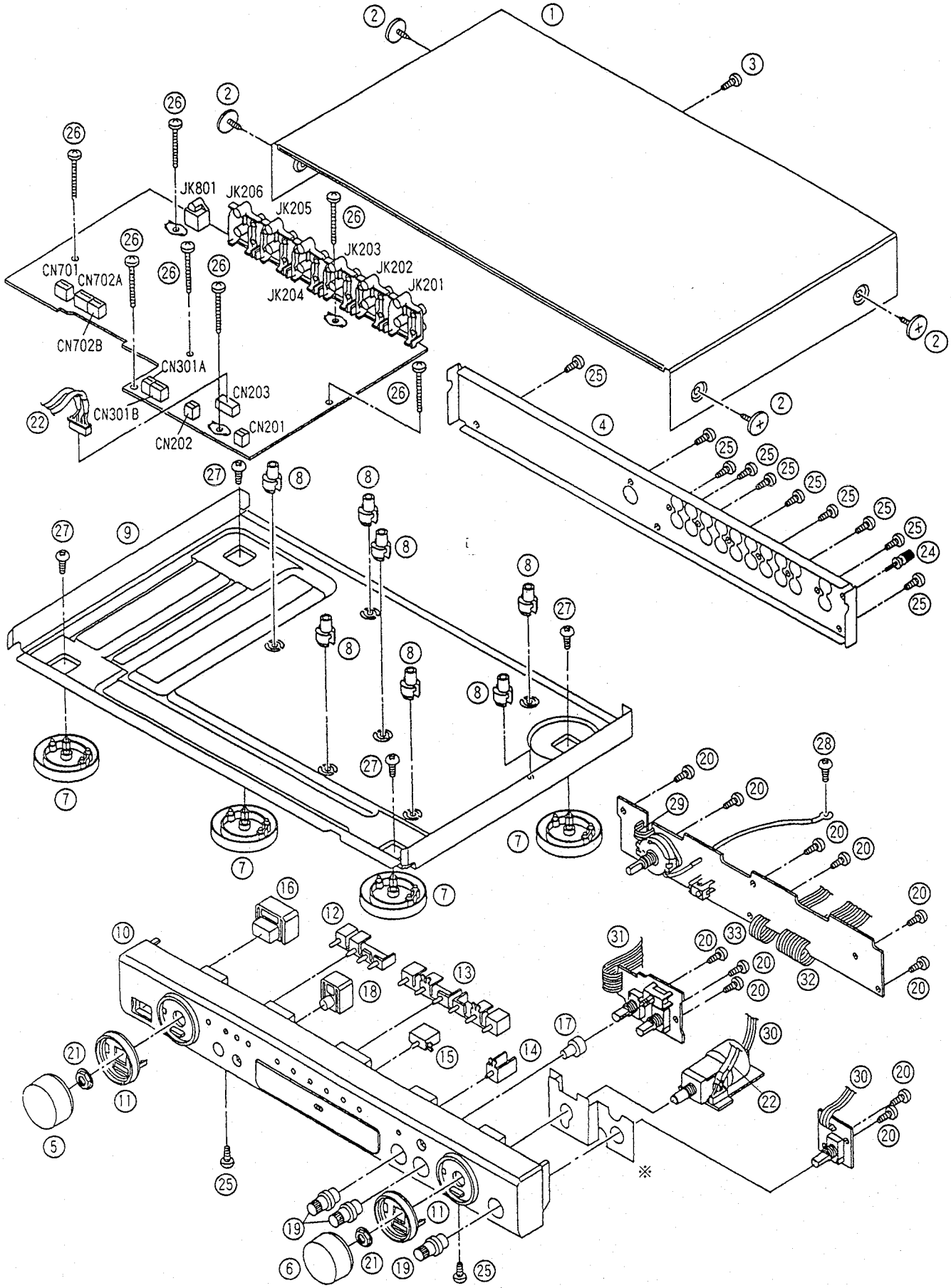
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | CABINET PARTS | |
| | | | |
| 1 | RKM0032-K | CABINET | [M] |
| 2 | RHD30035-K1 | SCREW | [M] |
| 3 | XTBS3+8JFZ1 | SCREW | [M] |
| 4 | RGR0224D-AA | REAR PANEL | [M] |
| 5 | RGW0229-K | KNOB | [M] |
| 6 | RGW0230-K | KNOB, VOLUME | [M] |
| 7 | RKA0053-A | FOOT | [M] |
| 8 | RKQ0089-2 | P. C. B. SUPPORT | [M] |
| 9 | RMK0035-6 | CHASSIS | [M] |
| 10 | RFKGUC800UME | FRONT PANEL ASS'Y | [M] |
| 11 | RGK0747-N | ORNAMENT LING | [M] |
| 12 | RGL0296-Q | PANEL LIGHT (A) | [M] |
| 13 | RGL0297-Q | PANEL LIGHT (B) | [M] |
| 14 | RGL0298-Q | PANEL LIGHT (C) | [M] |
| 15 | RGL0299-Q | PANEL LIGHT (D) | [M] |
| 16 | RGU0882-K | BUTTON, POWER | [M] |
| 17 | RGU1207-K | BUTTON, TONE | [M] |
| 18 | RGU1271-K | BUTTON, MONITOR | [M] |
| 19 | RGW0205-K | BUTTON, BALANCE | [M] |
| 20 | RHD26017 | SCREW | [M] |
| 21 | RHN90001 | NUT | [M] |
| 22 | REX0759 | WIRE ASS'Y | [M] |
| 24 | SNE2123 | SCREW | [M] |
| 25 | XTBS3+8JFZ1 | SCREW | [M] |
| 26 | XTB3+20JFZ | SCREW | [M] |
| 27 | XTB3+6G | SCREW | [M] |
| 28 | XTB3+6JFZ | SCREW | [M] |
| 29 | RWJ1803040KK | FLAT CABLE (3P) (W703) | [M] |
| 30 | RWJ3903170KQ | FLAT CABLE (3P) (W201/W202) | [M] |
| 31 | RWJ3907170KQ | FLAT CABLE (7P) (W301) | [M] |
| 32 | RWJ1809180KX | FLAT CABLE (9P) (W702) | [M] |
| 33 | RWJ1804180KX | FLAT CABLE (4P) (W701) | [M] |

# ■ Replacement Parts List (Resistors and Capacitors)

Notes : • Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
• Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| | | |
| | | RESISTORS |
| | | |
| R101, 102 | ERDS2FJ102 | 1/4W 1K [M] |
| R103, 104 | ERDS2FJ224 | 1/4W 220K [M] |
| R105, 106 | ERDS2FJ563 | 1/4W 56K [M] |
| R117, 118 | ERDS2FJ221 | 1/4W 220 [M] |
| R123, 124 | ERDS2FJ680 | 1/4W 68 [M] |
| R125, 126 | ERDS2FJ123 | 1/4W 12K [M] |
| R127, 128 | ERDS2FJ184 | 1/4W 180K [M] |
| R129, 130 | ERDS2FJ563 | 1/4W 56K [M] |
| R131, 132 | ERDS2FJ102 | 1/4W 1K [M] |
| R201-214 | ERDS2FJ102 | 1/4W 1K [M] |
| R215-217 | ERDS2FJ103 | 1/4W 10K [M] |
| R219-221 | ERDS2FJ103 | 1/4W 10K [M] |
| R222, 223 | ERDS2FJ102 | 1/4W 1K [M] |
| R224 | ERDS2FJ472 | 1/4W 4.7K [M] |
| R225, 226 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R227, 228 | ERDS2FJ104 | 1/4W 100K [M] |
| R251⚠ | ERDS1FJ2R2 | 1/2W 2.2 [M] |
| R301, 302 | ERDS2FJ101 | 1/4W 100 [M] |
| R303, 304 | ERDS2FJ474 | 1/4W 470K [M] |
| R305, 306 | ERDS2FJ104 | 1/4W 100K [M] |
| R315, 316 | ERDS2FJ224 | 1/4W 220K [M] |
| R317, 318 | ERDS2FJ223 | 1/4W 22K [M] |
| R319, 320 | ERDS2FJ392 | 1/4W 3.9K [M] |
| R321, 322 | ERDS2FJ223 | 1/4W 22K [M] |
| R323, 324 | ERDS2FJ392 | 1/4W 3.9K [M] |
| R325, 326 | ERDS2FJ183 | 1/4W 18K [M] |
| R327, 328 | ERDS2FJ392 | 1/4W 3.9K [M] |
| R329-332 | ERDS2FJ102 | 1/4W 1K [M] |
| R333, 334 | ERDS2FJ221 | 1/4W 220 [M] |
| R353, 354 | ERDS2FJ102 | 1/4W 1K [M] |
| R655 | ERDS2FJ103 | 1/4W 10K [M] |
| R656⚠ | ERDS1FJ100 | 1/2W 10 [M] |
| R701 | ERDS2FJ102 | 1/4W 1K [M] |
| R702, 703 | ERDS2FJ103 | 1/4W 10K [M] |
| R704 | ERDS2FJ104 | 1/4W 100K [M] |
| R706 | ERDS2FJ103 | 1/4W 10K [M] |
| R707-709 | ERDS2FJ104 | 1/4W 100K [M] |
| R710-712 | ERDS2FJ103 | 1/4W 10K [M] |
| R713 | ERDS2FJ102 | 1/4W 1K [M] |
| R714 | ERDS2FJ331 | 1/4W 330 [M] |
| R715, 716 | ERDS2FJ273 | 1/4W 27K [M] |
| R717 | ERDS2FJ334 | 1/4W 330K [M] |
| R718-721 | ERDS2FJ473 | 1/4W 47K [M] |
| R723-725 | ERDS2FJ103 | 1/4W 10K [M] |
| R726 | ERDS2FJ102 | 1/4W 1K [M] |
| R801 | ERDS2FJ821 | 1/4W 820 [M] |
| R802 | ERDS2FJ102 | 1/4W 1K [M] |
| R803 | ERDS2FJ122 | 1/4W 1.2K [M] |
| R804 | ERDS2FJ152 | 1/4W 1.5K [M] |
| R805 | ERDS2FJ182 | 1/4W 1.8K [M] |
| R806 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R807 | ERDS2FJ332 | 1/4W 3.3K [M] |
| R808 | ERDS2FJ472 | 1/4W 4.7K [M] |
| R809 | ERDS2FJ682 | 1/4W 6.8K [M] |
| R810 | ERDS2FJ123 | 1/4W 12K [M] |
| R811 | ERDS2FJ223 | 1/4W 22K [M] |
| R812 | ERDS2FJ181 | 1/4W 180 [M] |
| R813, 814 | ERDS2FJ151 | 1/4W 150 [M] |
| R815 | ERDS2FJ271 | 1/4W 270 [M] |
| R819 | ERDS2FJ271 | 1/4W 270 [M] |
| R820 | ERDS2FJ223 | 1/4W 22K [M] |
| R821 | ERDS2FJ104 | 1/4W 100K [M] |
| R822 | ERDS2FJ271 | 1/4W 270 [M] |
| R823-825 | ERDS2FJ104 | 1/4W 100K [M] |
| | | |
| | | CAPACITORS |
| | | |
| C101, 102 | ECBT1H181KB5 | 50V 180P [M] |
| C103, 104 | ECA1HPXS4R7B | 50V 4.7U [M] |
| C107, 108 | RCE1AKA330BG | 10V 33U [M] |
| C113, 114 | ECQB1H682JF3 | 50V 6800P [M] |
| C115, 116 | ECQB1H223JF3 | 50V 0.022U [M] |
| C117, 118 | ECEA1VKA4R7B | 35V 4.7U [M] |
| C119, 120 | ECQB1H472JF3 | 50V 4700P [M] |
| C121, 122 | ECKR1H103ZF5 | 50V 0.01U [M] |
| C123, 124 | ECBT1H102KB5 | 50V 1000P [M] |
| C201, 202 | ECBT1H101KB5 | 50V 100P [M] |
| C203, 204 | ECKT1H101KB | 50V 100P [M] |
| C205-208 | ECBT1H101KB5 | 50V 100P [M] |
| C209, 210 | ECKT1H101KB | 50V 100P [M] |
| C211, 212 | ECBT1H101KB5 | 50V 100P [M] |
| C213, 214 | ECKT1H101KB | 50V 100P [M] |
| C215 | ECBT1H101KB5 | 50V 100P [M] |
| C217, 218 | ECBT1E103ZF | 25V 0.01U [M] |
| C219, 220 | RCE1HKA4R7BG | 50V 4.7U [M] |
| C221 | ECBT1H101KB5 | 50V 100P [M] |
| C223, 224 | RCE1HKA4R7BG | 50V 4.7U [M] |
| C225, 226 | ECBT1E103ZF | 25V 0.01U [M] |
| C251, 252 | ECEA0JKA101B | 6.3V 100U [M] |
| C253, 254 | ECQV1H104JM3 | 50V 0.1U [M] |
| C301, 302 | ECA1HPXS4R7B | 50V 4.7U [M] |
| C303, 304 | ECCR1H470JC5 | 50V 47P [M] |
| C305, 306 | ECCR1H820JC5 | 50V 82P [M] |
| C309, 310 | ECA1HPXS010B | 50V 1U [M] |
| C311, 312 | ECCR1H390JC5 | 50V 39P [M] |
| C313, 314 | ECA1EPX470TB | 25V 47U [M] |
| C315, 316 | ECBT0J153MS5 | 6.3V 0.015U [M] |
| C317, 318 | ECQV1H823JM3 | 50V 0.082U [M] |
| C319, 320 | ECBT1C222KR5 | 16V 2200P [M] |
| C321, 322 | ECBT0J153MS5 | 6.3V 0.015U [M] |
| C323, 324 | ECBT1H121KB5 | 50V 120P [M] |
| C325 | ECBT1H102KB5 | 50V 1000P [M] |
| C327, 328 | ECKR1H331KB5 | 50V 330P [M] |
| C341, 342 | ECBT1C332KR5 | 16V 3300P [M] |
| C351, 352 | ECKR1H103ZF5 | 50V 0.01U [M] |
| C601 | ECEA1HKA010B | 50V 1U [M] |
| C607, 608 | ECA1EPXS470B | 25V 47U [M] |
| C651 | ECA1EM222E | 25V 2200U [M] |
| C655 | RCE1CKA470BG | 16V 47U [M] |
| C656 | ECQV1H104JM3 | 50V 0.1U [M] |
| C657, 658 | ECKR1H103ZF5 | 50V 0.01U [M] |
| C701 | ECA0JM102B | 6.3V 1000U [M] |
| C702 | ECBT1C103NS5 | 16V 0.01U [M] |
| C703 | RCE1HKAR47BG | 50V 0.47U [M] |
| C704 | ECEA1HKA2R2B | 50V 2.2U [M] |
| C705 | ECBT1C103NS5 | 16V 0.01U [M] |
| C706 | ECQV1H224JM3 | 50V 0.22U [M] |
| C707, 708 | ECEA1HKAR22B | 50V 0.22U [M] |
| C709 | ECBT1H102KB5 | 50V 1000P [M] |
| C801 | ECEA0JKA101B | 6.3V 100U [M] |

# ■ Cabinet Parts Location




We do not supply the item of the part marked ※.



Printed in Japan
F970706000HS/KH/YI

30 948

ORDER NO. AD9707099C2

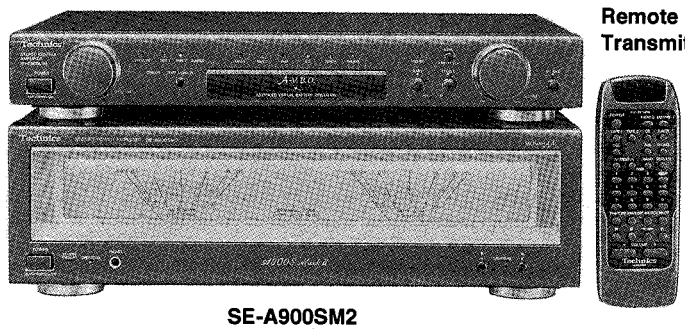
# Service Manual

Amplifier

Power Amplifier

# SE-A900SM2

SU-C800UM2



Remote Control Transmitter

SE-A900SM2

**Colour**

(K).....Black Type

**Areas**

(E) ..... Europe.
(EB) ..... Great Britain.
(EG)..... Germany.

**Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.**

**System: SU-A900DM2**

| | |
|---|---|
| Control amplifier | SU-C800UM2 |
| **Power amplifier** | **SE-A900SM2** |

## Specifications (DIN 45 500)

| | |
|---|---|
| **20 Hz – 20 kHz continuous power output** | |
| **both channels driven** | 2×70 W (8 Ω) |
| **1 kHz continuous power out put** | |
| **both channels driven (THD: 1 %)** | 2×85 W (8 Ω) |
| | 2×120 W (4 Ω) |
| **63 Hz – 12.5 kHz continuous power output** | |
| **both channels driven (THD: 0.7 %)** | 2×80 W (8 Ω) |
| | 2×105 W (4 Ω) |
| **Total harmonic distortion (THD)** | |
| **rated power at 20 Hz – 20 kHz** | 0.015 % (8 Ω) |
| **Intermodulation distortion** | |
| **(50 Hz: 7 kHz = 4 : 1, SMPTE)** | 0.007 % (8 Ω) |
| **Residual hum and noise** | 0.3 mV |
| **Damping factor** | 70 (8 Ω) |
| | 35 (4 Ω) |
| **Headphones output level/impedance** | 540 mV/330 Ω |
| **Load impedance** | |
| **A or B, BI-WIRING** | 4 Ω – 16 Ω |
| **A and B** 8 Ω – 16 Ω | |
| **Input sensitivity/impedance** | 1 V/33 kΩ |
| **S/N (rated power, 4 Ω)** | 95 dB (110 dB, IHF '66) |
| **Frequency response** | 5 Hz – 70 kHz (+0, –3 dB) |
| | +0 dB, –0.5 dB (20 Hz – 20 kHz) |

■ **GENERAL**

| | |
|---|---|
| **Power supply** | |
| **For (E) and (EG) areas** | AC 50 Hz, 230 V |
| **For (EB) area** | AC 50 Hz, 230 V – 240 V |
| **Power consumption** | 285 W |
| **Dimensions (W × H × D)** | 430×136×344 mm |
| **Weight** | 9.8 kg |

**Notes:**

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

**⚠WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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# ■ Contents


| | Page |
|---|---|
| Before Repair | 2 |
| Protection Circuitry | 2 |
| Accessories | 2 |
| Caution for AC Mains Lead | 3 |
| Connections | 4, 5 |
| Names of Parts | 6 |
| Operations | 7 |
| Operation Check and Main Component Replacement Procedures | 8 – 11 |
| Measurements and Adjustments | 12 |
| Schematic Diagram | 13 – 17 |
| Printed Circuit Board Diagram | 18 – 21 |
| Type Illustration of IC's, Transistors and Diodes | 21 |
| Wiring Connection Diagram | 22 |
| Block Diagram | 23 |
| Replacement Parts List (Electrical) | 24, 25 |
| Replacement Parts List (Resistors and Capacitors) | 26, 27 |
| Cabinet Parts Location | 28, 29 |
| Replacement Parts List (Cabinet, Accessories and Packing) | 30 |
| Packaging | 31 |


# ■ Before Repair

(1) Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230 V/240 V.

| Power supply voltage | AC 230 V, 50 Hz | AC 240 V, 50 Hz |
|---|---|---|
| Consumed current | 160 mA ~ 320 mA | 160 ~ 320 mA |

# ■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

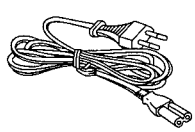
1. Switch OFF the power.
2. Determine the cause of the cause of the problem and correct it.
3. Switch ON the power once again.

**Note:**

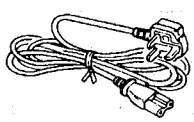
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

# ■ Accessories

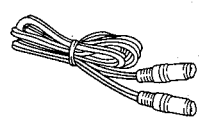
- AC power supply cord
  (E) and (EG) areas : (RJA0019-2K) .... 1



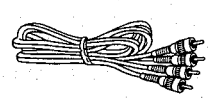
  (EB) area : (RJA0049-K) ..... 1



- Amplifier connection cable
  (RJL6D001B10) ..... 1

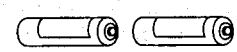


- Stereo connection cable
  (SJP2276) ..... 1



- Remote control transmitter
  (RAK-SU228WH) ..... 1

- Batteries for remote control transmitter
  (UM-4, "AAA", R03) ..... 2
  **Note:** These are available on sales route.



# ■ Caution for AC Mains Lead

**[for (EB) area code model only]**

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ♆ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

**CAUTION!**
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFETY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

**IMPORTANT**
The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

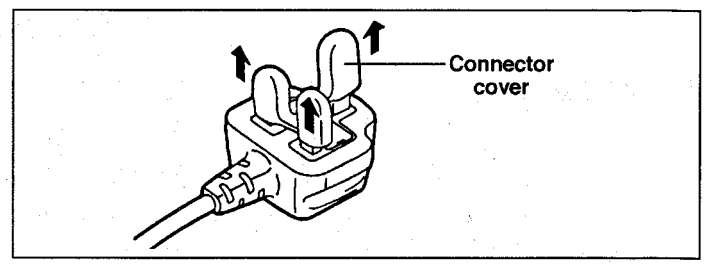
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

This apparatus was produced to BS 800.

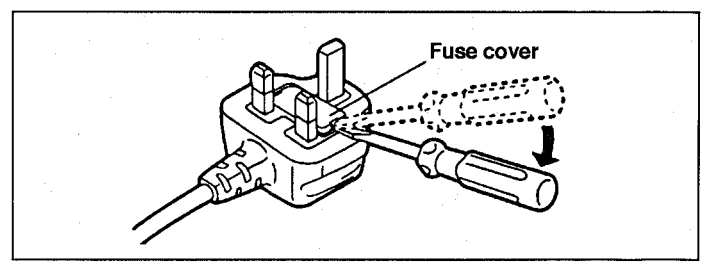
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚ .

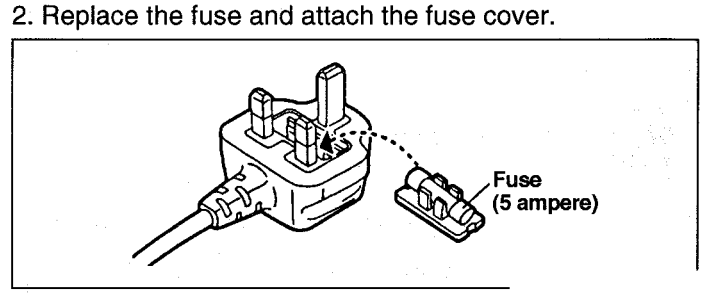
**Before use**
Removal the connector cover as follows.




**How to replace the fuse**
1. Remove the fuse cover with a screwdriver.




2. Replace the fuse and attach the fuse cover.



# ■ Connections

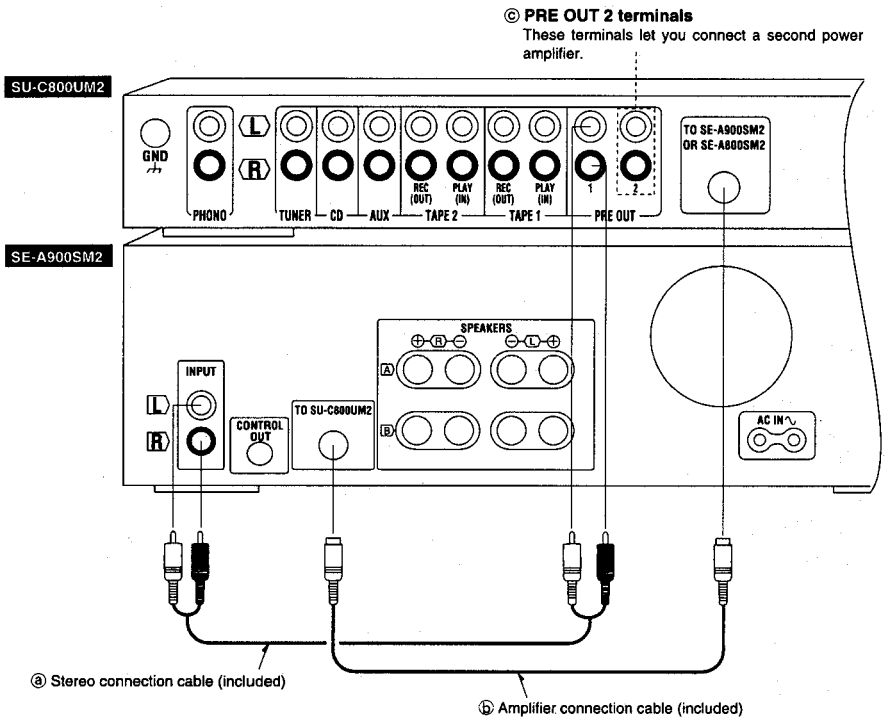
**Stereo connection cable**

White (L) Blanco (L) Vit (L)

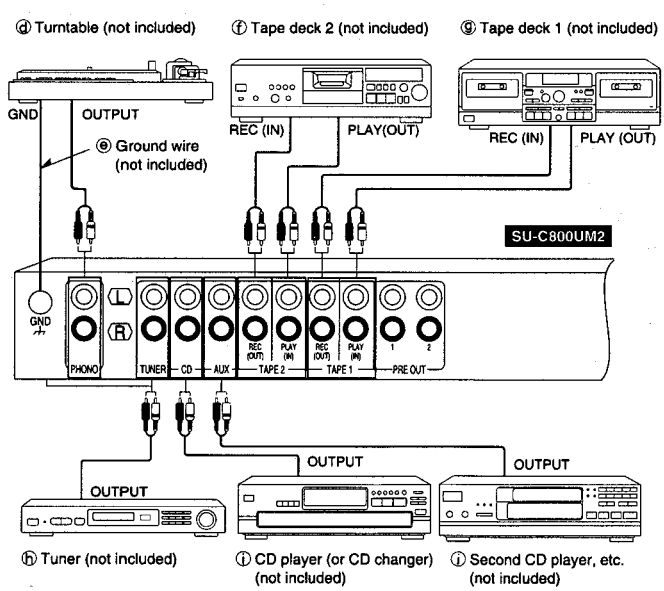
- Make sure that the power supply for all components has been turned off before making any connections.
- Connect the power cord to the amplifier only after all other connections between components have been made.

**The symbols (ⓐ, ⓑ, ⓒ etc.) used in this disgram are inserted for reference when using the companion volume.**

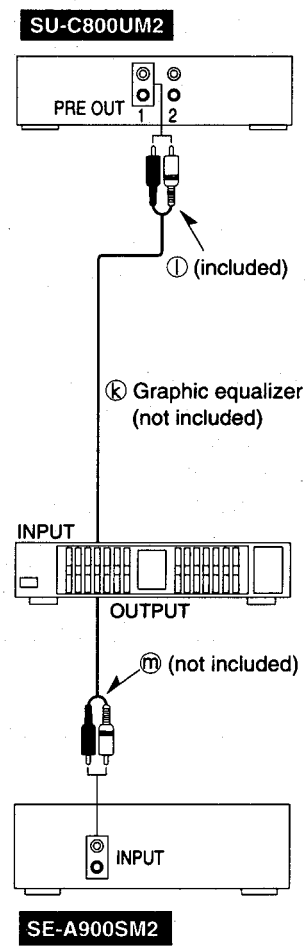
## 1 Control amplifier and power amplifier connections




## 2 Component connections

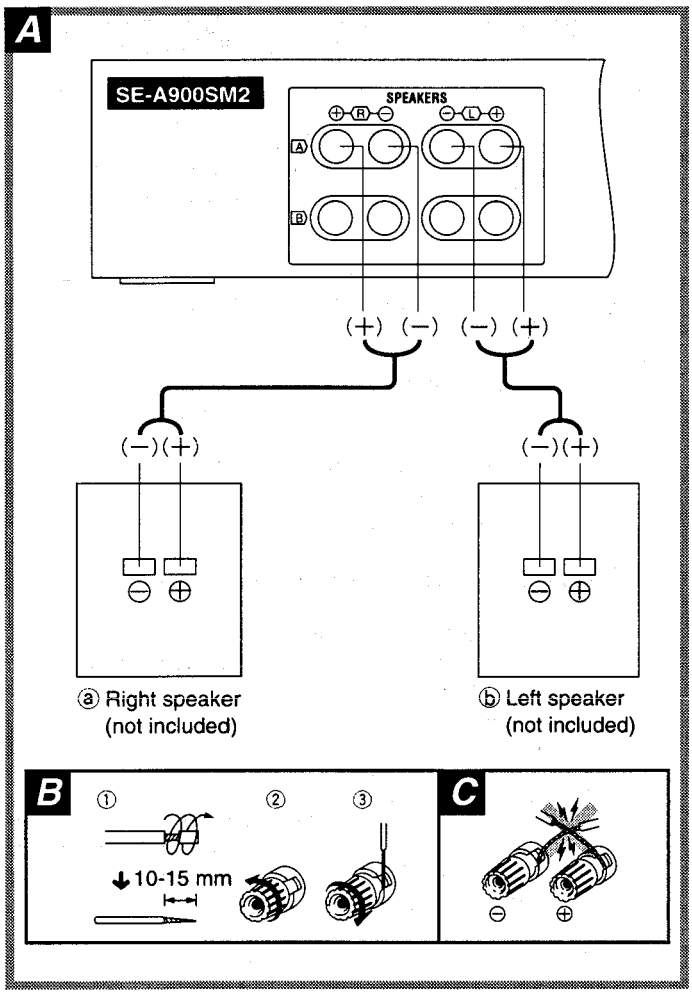


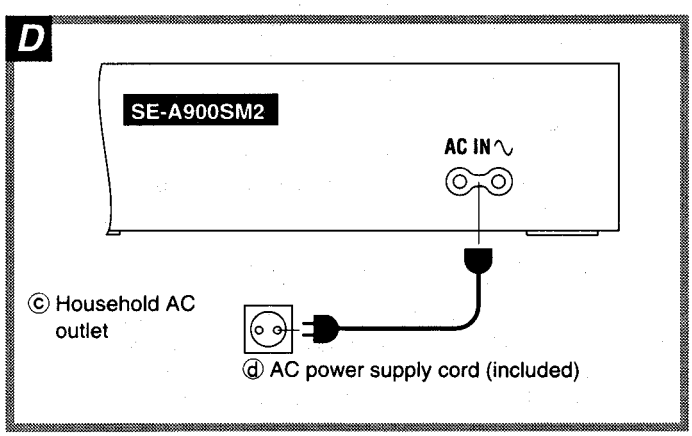

**A**

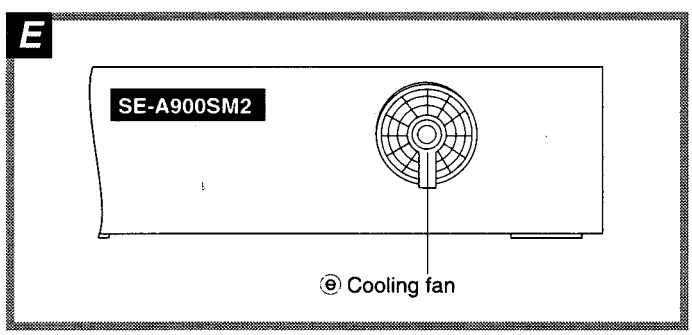



**If connecting a graphic equalizer A**

Connect it between the PRE OUT terminals of the control amplifier and the INPUT terminals of the power amplifier.




## Connecting the speakers A

The wires which are connected to the positive (+) terminals of the amplifier should be connected to the positive (+) terminals of the speakers. The negative (–) terminals should be connected in a similar way.

**Speaker cables (not included)**

(+) (–) (+) (–)

### To connect speaker cables to terminals B

① Strip off the outer covering, and twist the center conductor.
② Turn the knob completely to the left.
③ Insert the wire and turn the knob completely to the right. Pull the cord to assure a proper connection.

### ■ "B" terminals

For connection to a second pair of speakers.

### ■ Speaker impedance

- When only the "A" or only the "B" terminals are used: 4-16 Ω
- When both the "A" and the "B" terminals are used simultaneousy: 8-16 Ω

**CAUTION** C

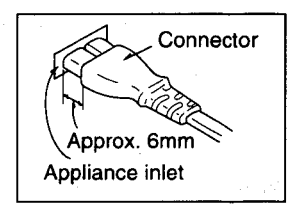
To prevent damage to circuitry, never short-circuit the positive (+) and negative (–) speaker wires.

## Connecting the power supply D

Connect the power supply only after all other connections have been made.

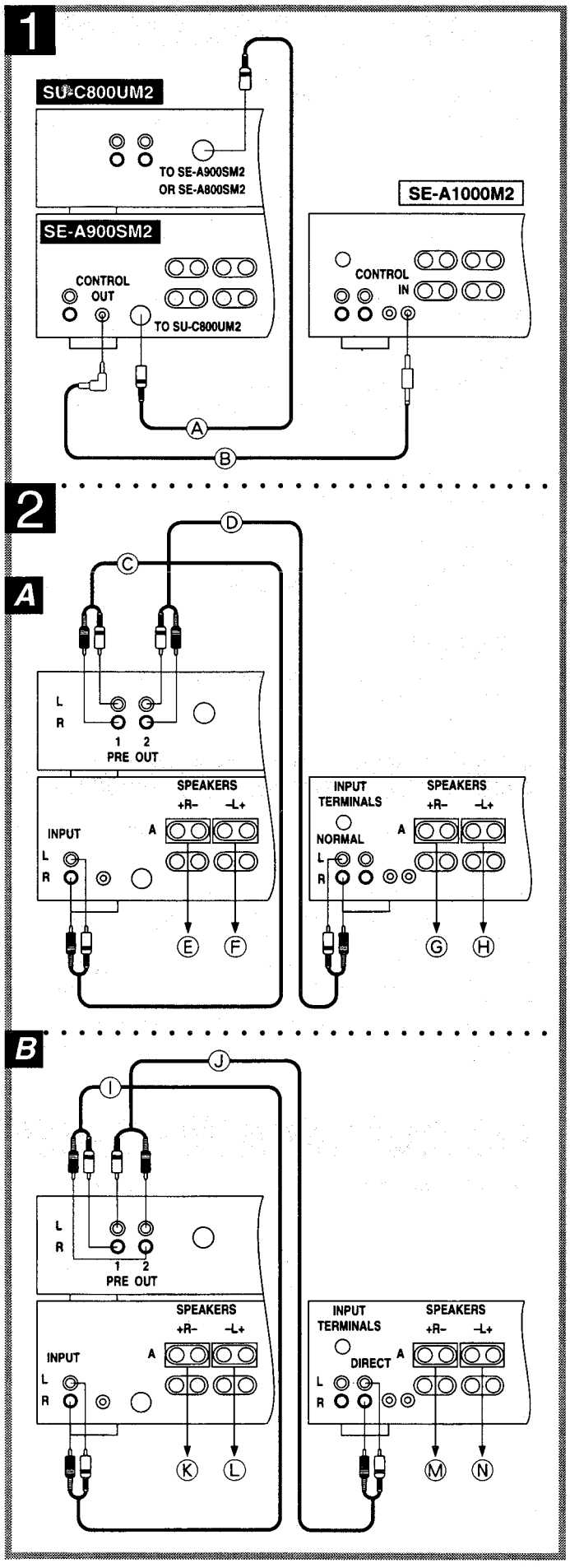
**Insertion of Connector**

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.y.




## Cooling fan E

The cooling fan operates at high power output levels only.




## Multi-amplifier system setup

The two PRE OUT terminals on the control amplifier allow you to connect a second power amplifier. This kind of setup with the Technics SE-A1000M2 (not included) unleashes a multitude of system configurations which will give you better control over sound quality in the listening ambient and gain clearer sound than ever before.

Here following is an explanation on how to connect to the Technics SE-A1000M2. In this particular setup, speakers are connected so as to separete treble and bass input.

### 1 Connect the amplifier connection cable and the connection cable for remote control.

Ⓐ Amplifier connection cable (included)
Ⓑ Connection cable for remote control (included with SE-A1000M2)

### 2 Connect the stereo connection cables and speakers.

For speaker cable connections.
In the below text, speaker input terminals are indicated as "HF" for the high region and "LF" for the low region.

**Example 1** A

**To use one power amplifier for the high region and one for the low region**

If connections are made as shown in the illustration, you can adjust high range level from the LEVEL CONTROL knob on the SE-A1000M2. (See the SE-A1000M2 instruction manual for details.)

Ⓒ Stereo connection cable (included)
Ⓓ Stereo connection cable (not included)
Ⓔ To the LF terminals on the right speaker
Ⓕ To the LF terminals on the left speaker
Ⓖ To the HF terminals on the right speaker
Ⓗ To the HF terminals on the left speaker

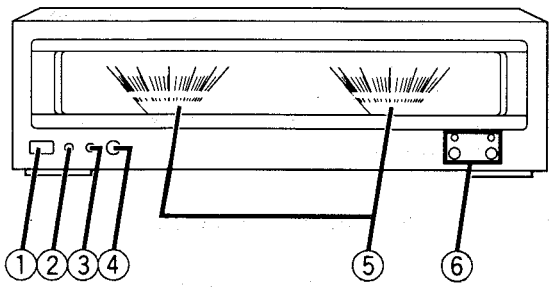
**Example 2** B

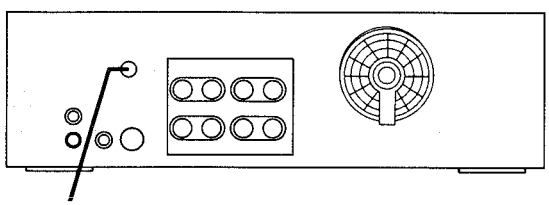
**To use as left/right monaural amplifiers**

Left and right channel separation will be better and sound orientation improved.

Ⓘ Stereo connection cable (included)
Ⓙ Stereo connection cable (not included)
Ⓚ To the HF (or LF) terminals on the right speaker
Ⓛ To the LF (or HF) terminals on the right speaker
Ⓜ To the HF (or LF) terminals on the left speaker
Ⓝ To the LF (or HF) terminals on the left speaker

# ■ Front Panel Controls



POWER METER LIGHT

**① Power " ▬ STANDBY ⏻ ▬ ON" switch (POWER, ▬ STANDBY ⏻ ▬ ON)**

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

**② "REMOTE STANDBY" indicator (REMOTE STANDBY)**

The indicator lights up in the below cases.

- When the control amplifier is in the OFF state and this switch is set in the " ▬ ON" position
- When both amplifiers are ON and then turned OFF simultaneously from either the control amplifier POWER switch or the remote control transmitter.

While this indicator is lit, this unit can be activated from either POWER switch of the control amplifier or the remote conrtol transmitter.

**③ Operation indicator (OPERATION)**

**④ Headphones jack (PHONES)**

**⑤ Power meters**

The power meter lights are turned on by pressing the POWER METER LIGHT button on the amplifier rear.

**⑥ Speaker select buttons/indicators (SPEAKERS)**

# ■ Operation Check and Main Component Replacement Procedures

**NOTE**

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

## • Contents


•**Checking Procedure for each P.C.B.** Page.

1.Checking for the main P.C.B.. ..... 8,9.

•**Main Component Replacement Procedures**

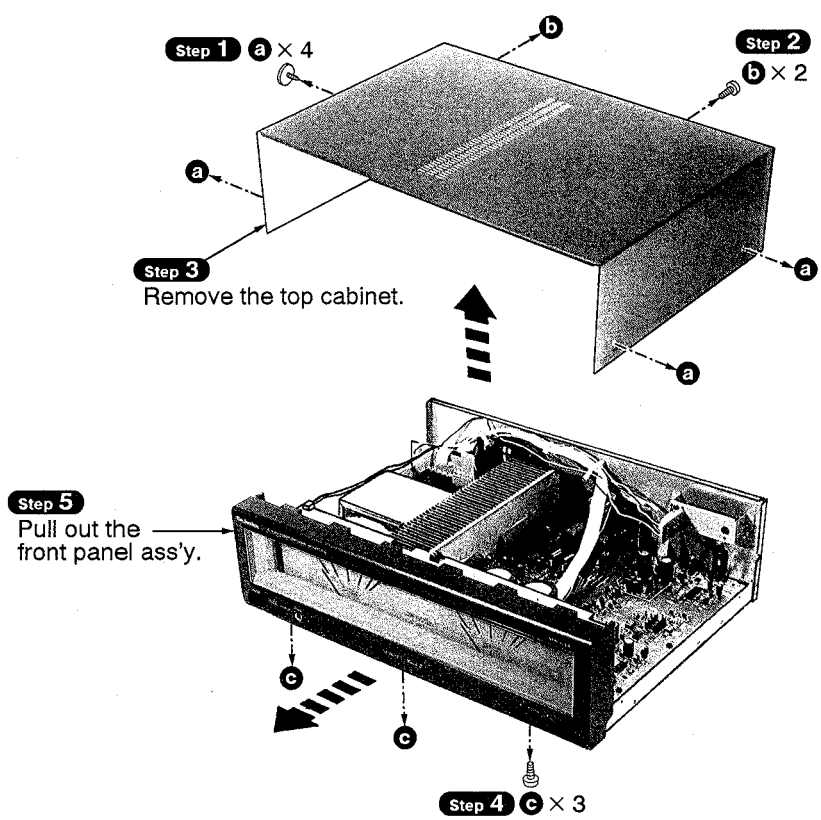
1.Replacement for the meter ass'y. ..... 10.

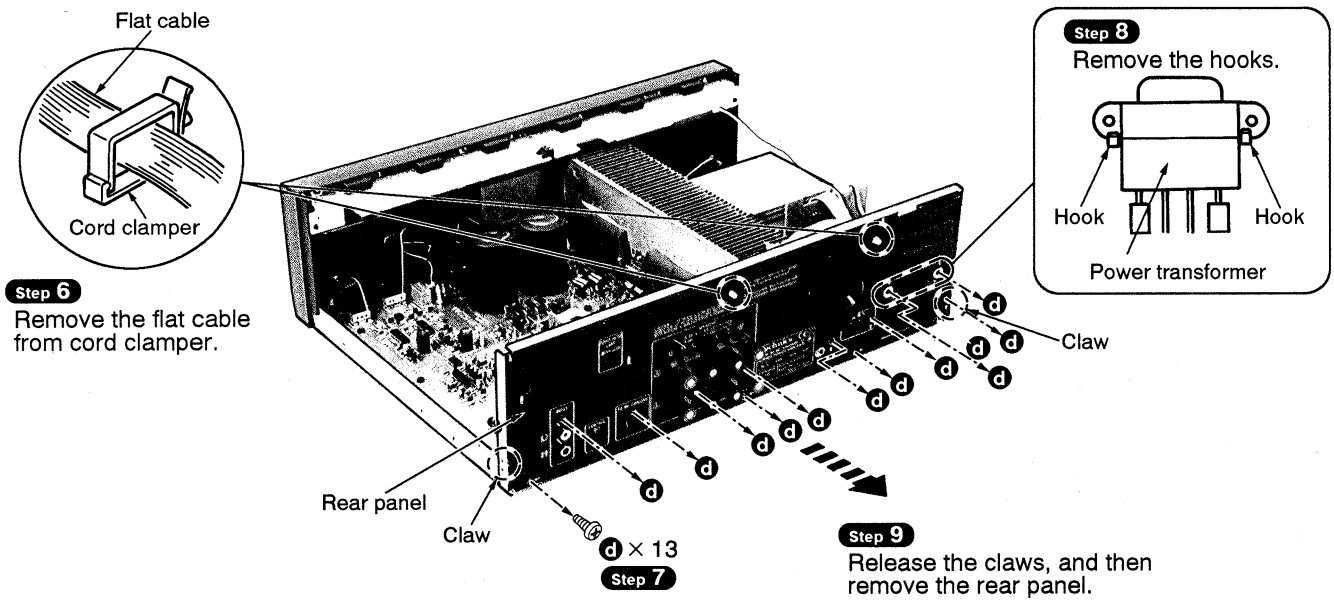
2.Replacement for the power IC and regulator transistor. ..... 10,11.

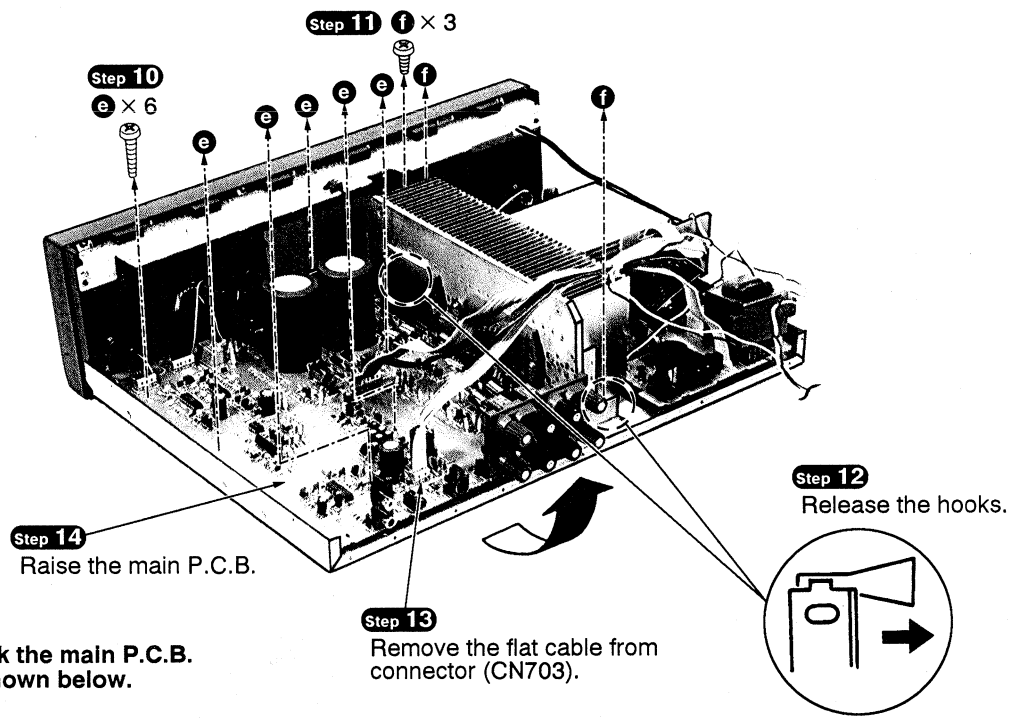
3.Replacement for the fan motor. ..... 11.


# ■ Checking Procedure for each P.C.B.

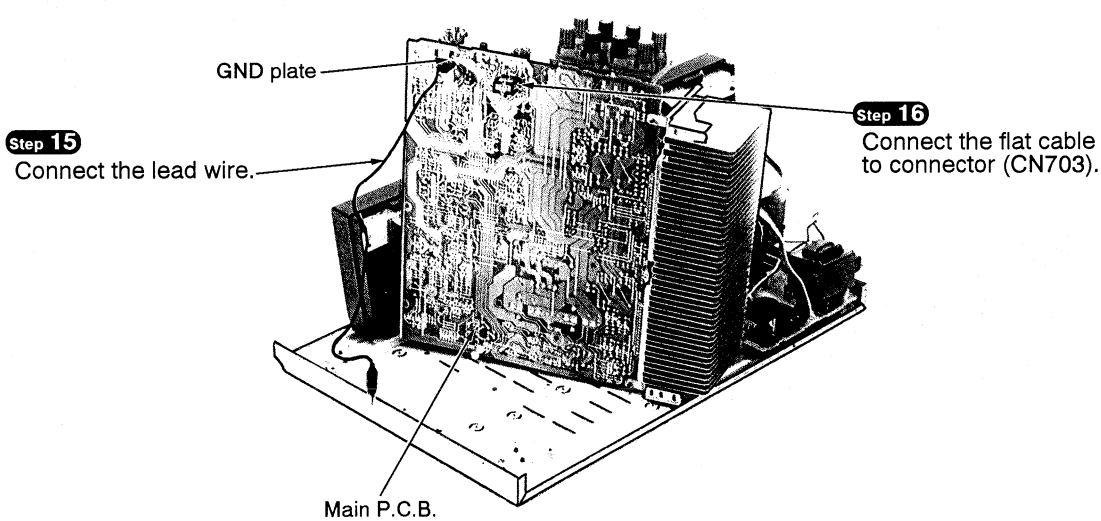
## 1. Checking for the main P.C.B.





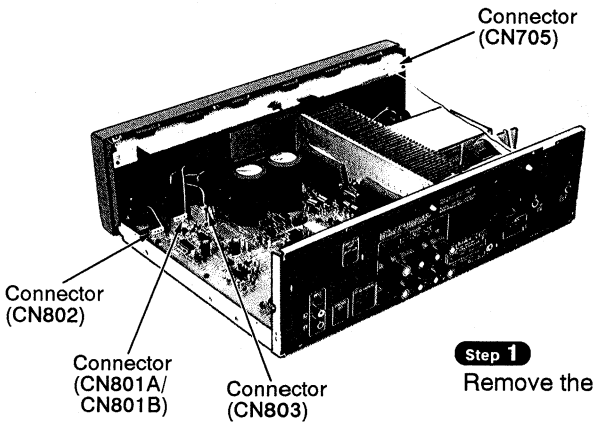

• **Check the main P.C.B. as shown below.**



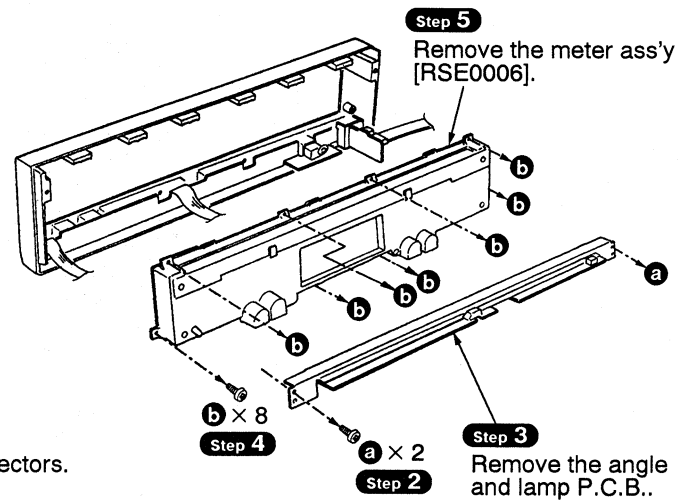
# ■ Main Component Replacement Procedures

## 1. Replacement for the meter ass'y

• Follow the Step 1 ~ Step 5 in item 1 on checking procedure for each P.C.B. on page 8.



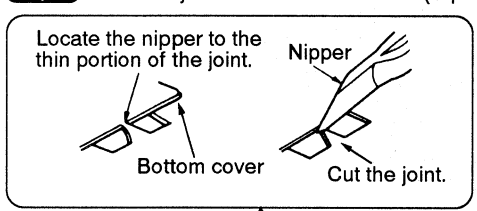

Step 1
Remove the 4 connectors.

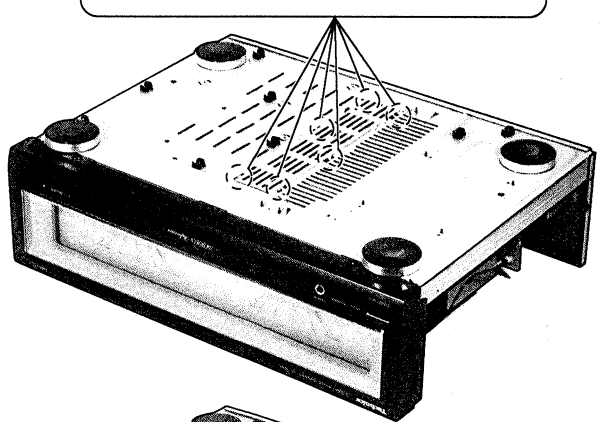



## 2. Replacement for the power IC and regulator transistor

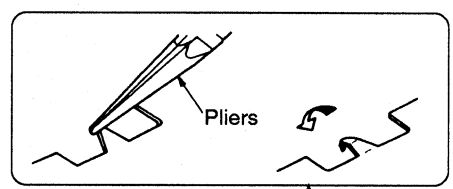
• Follow the Step 1 ~ Step 3 in item 1 on checking procedure for each P.C.B. on page 8.

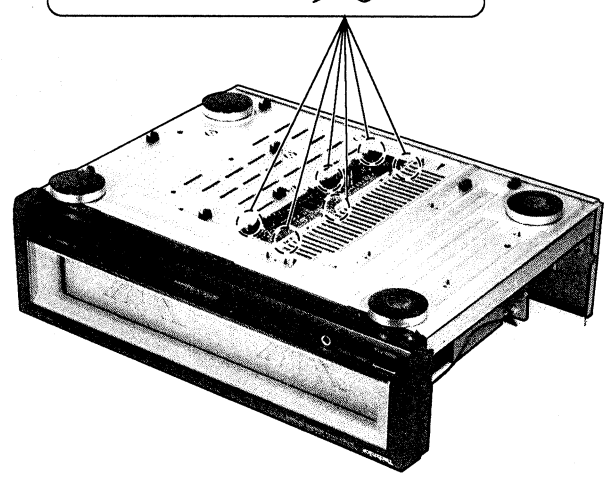
Step 1 Cut the joints as shown below.(6 portions)

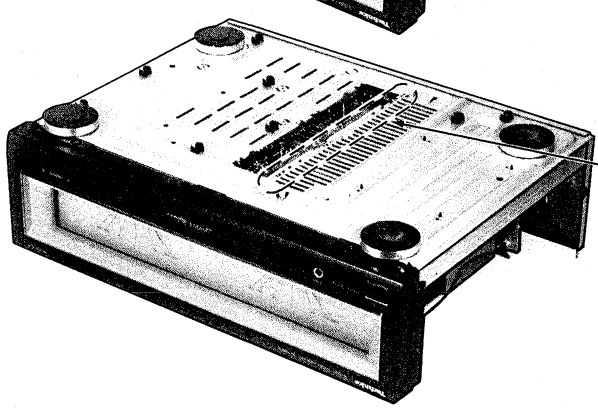


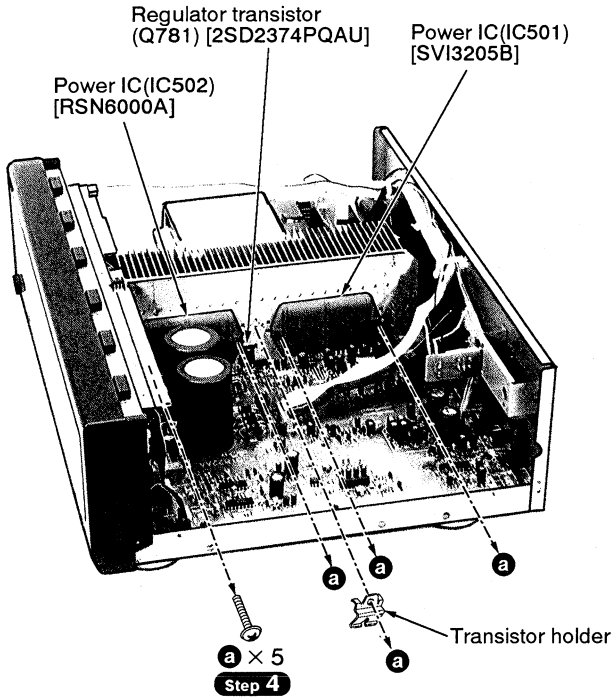
Step 2 Fold the joints.(6 portions)



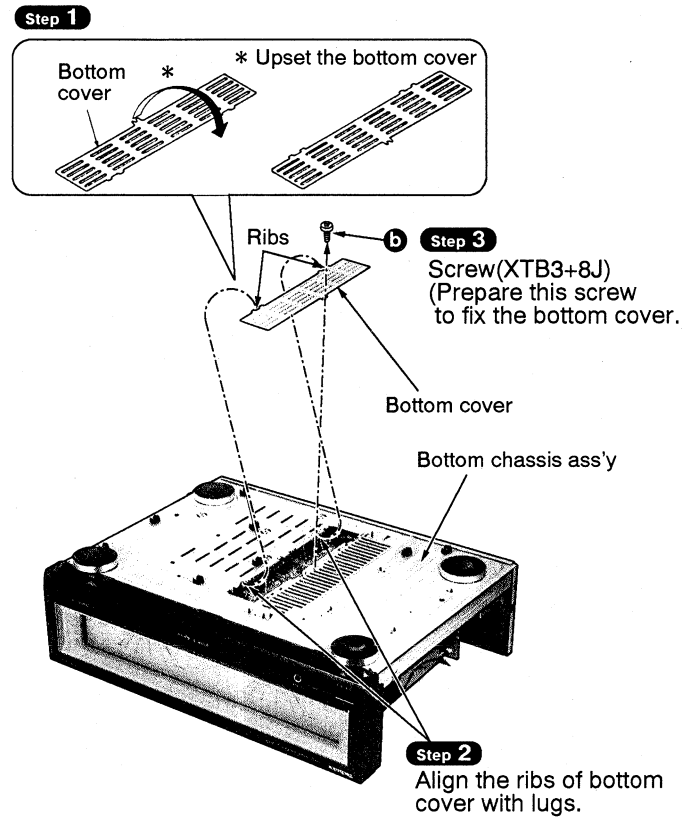





Step 3
Unsolder the terminals of power IC and regulator transistor.




## Installation of the bottom cover after replacement

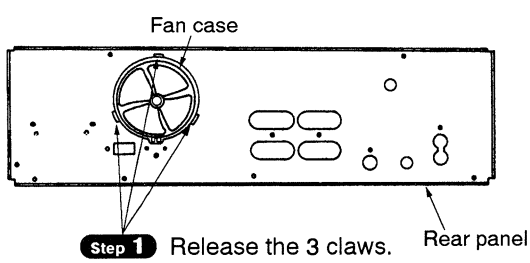


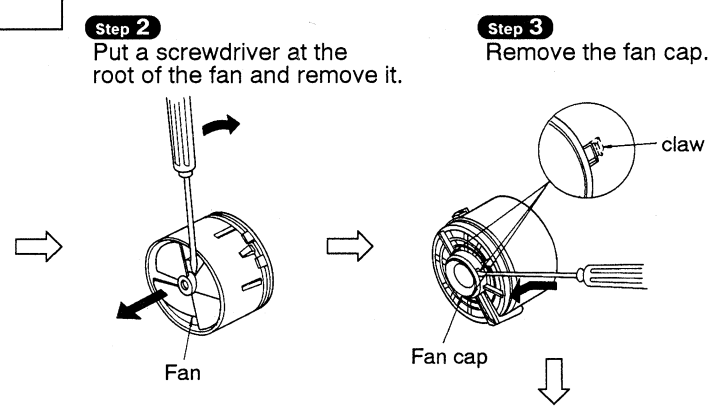

**CAUTION**

1. After replceing the power IC or regulator transistor,apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws ( a ) after replacing the power IC and regulator transisitor. Otherwise, the heat rabiation works little.

## 3. Replacement for the fan motor

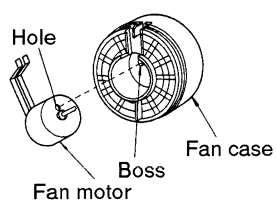
• Follow the Step 1 ~ Step 9 in item 1 on checking procedure for each P.C.B. on pages 8 and 9.

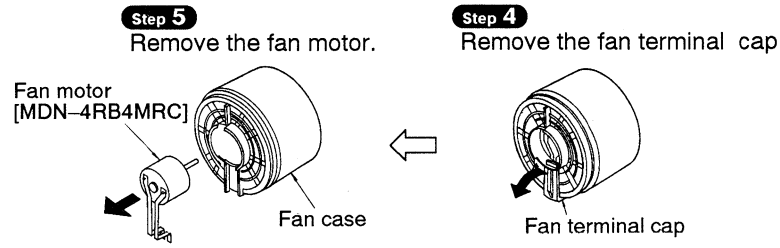



**NOTE**

When replacing the fan motor, align the boss of the fan case with the hole of the fan motor.



# ■ Measurements and Adjustments

## Measuring Instruments and Special Tools

- AC electronic voltmeter (AC EVM)
- AF oscillator

### Power Meter Adjustment

1. Test equipment connection is shown in Fig. 1.
2. Before turning **ON** the set, adjust **VR909 (L-ch)** and **VR910 (R-ch)** to mechanical center position (shown in Fig. 2).
3. Turn the power **ON**, make sure that the power meter is mechanically adjusted to **0** point (shown in Fig. 3).
4. Apply a **1 kHz** signal to the input terminal so that the output voltage of speaker terminal is **8.94 V** (adjust the signal level with the attenuator of AF oscillator).
5. Adjust **VR909 (L-ch)** and **VR910 (R-ch)** so that the power meter indicates **10 W** (shown in Fig. 4).

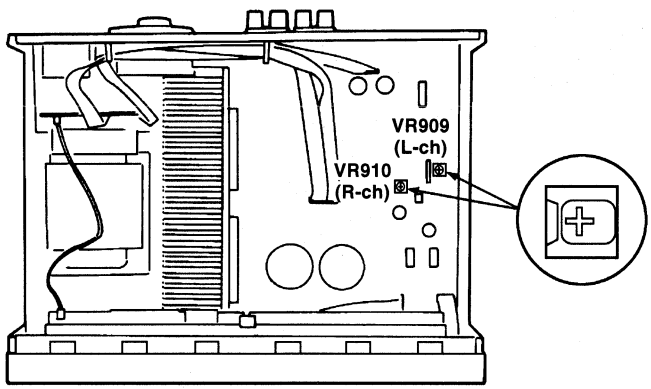



Fig. 2

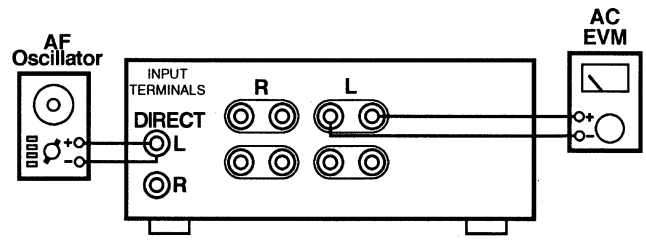



Fig. 1

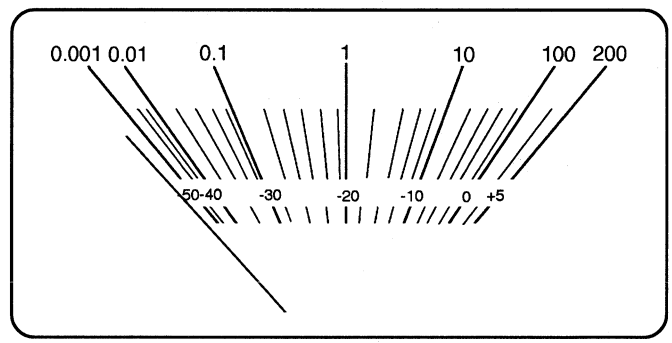



Fig. 3

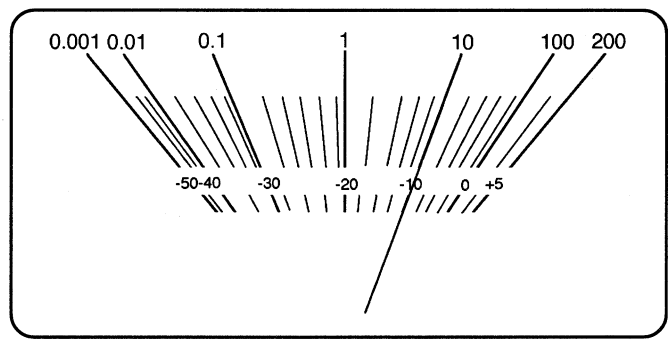



Fig. 4

# ■ Schematic Diagram


| | | Page |
|---|---|---|
| A | MAIN CIRCUIT | 14 – 17 |
| B | SP. SWITCH CIRCUIT | 17 |
| C | HEADPHONES JACK CIRCUIT | 17 |
| D | LED CIRCUIT | 17 |
| E | LAMP (RIGHT) CIRCUIT | 17 |
| F | LAMP (LEFT) CIRCUIT | 17 |
| G | LIGHT SWITCH CIRCUIT | 17 |
| H | POWER SUPPLY CIRCUIT | 17 |
| I | POWER TRANSFORMER CIRCUIT | 17 |
| J | POWER SWITCH CIRCUIT | 17 |


- **This schematic diagram may be modified at any time with the development of new technology.**

**Notes:**
- **S801** : Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON)
- **S802** : Speaker select switch (SPEAKER A)
- **S803** : Speaker select switch (SPEAKER B)
- **S805** : Power meter light adjustment VR. (POWER METER LIGHT)
- **VR909** : Power meter adjustment VR (L ch)
- **VR910** : Power meter adjustment VR (R ch)

- Voltage values and waveforms are measured as indicated in the schematic diagram when test points between **TP701** and **TP702**, and between **TP703** and **TP704** are shorted.

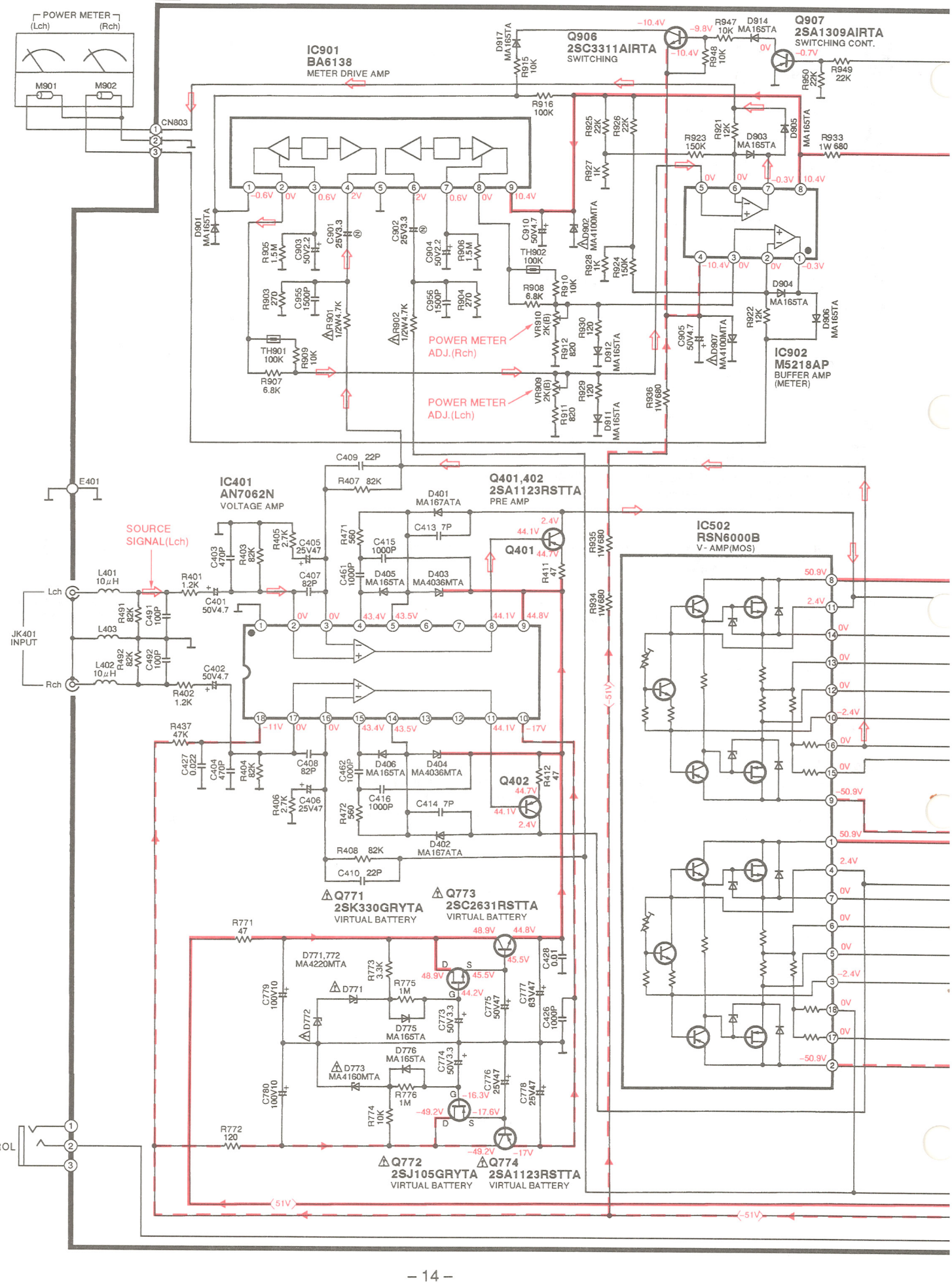
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  No mark: Power ON

- Voltage and signal line
  : Source Signal Line (Lch)
  : Positive Voltage Line
  : Negative Voltage Line

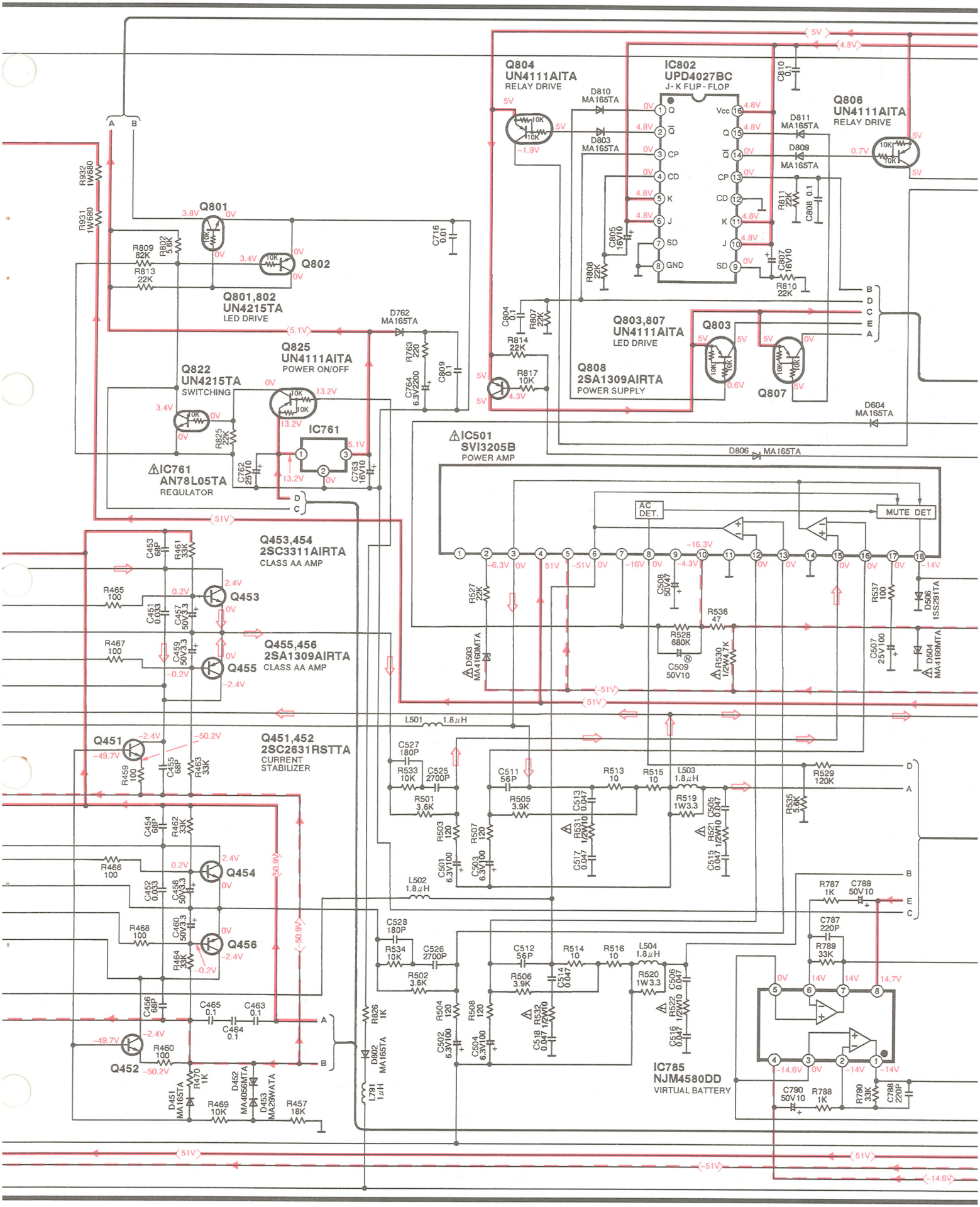
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.

# A MAIN CIRCUIT (P.C.Board:on page 18)

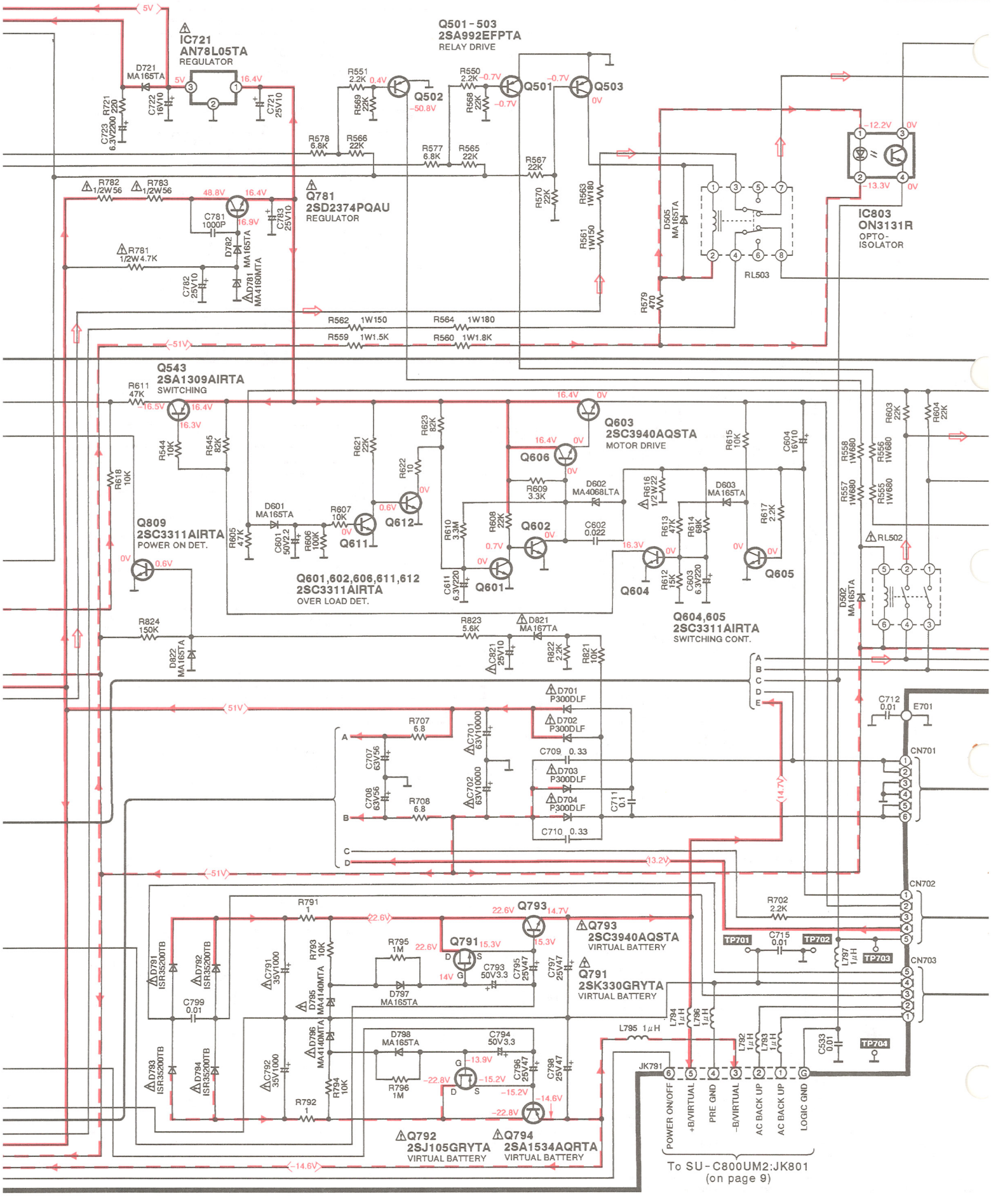


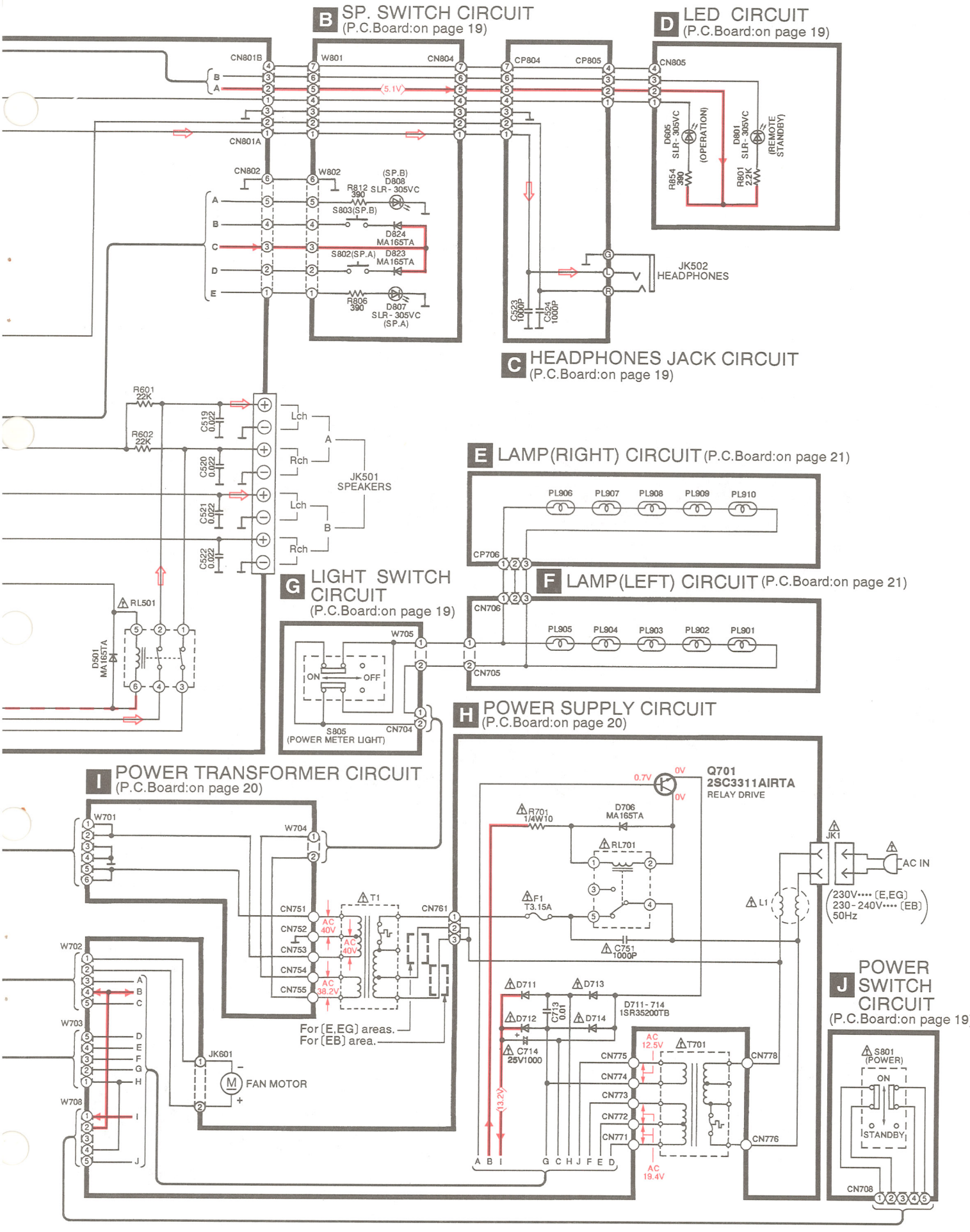
: Positive Voltage Line  : Negative Voltage Line  : Source Signal Line (Lch)



: Positive Voltage Line : Negative Voltage Line : Source Signal Line (Lch)

## A MAIN CIRCUIT (P.C.Board:on page 18)

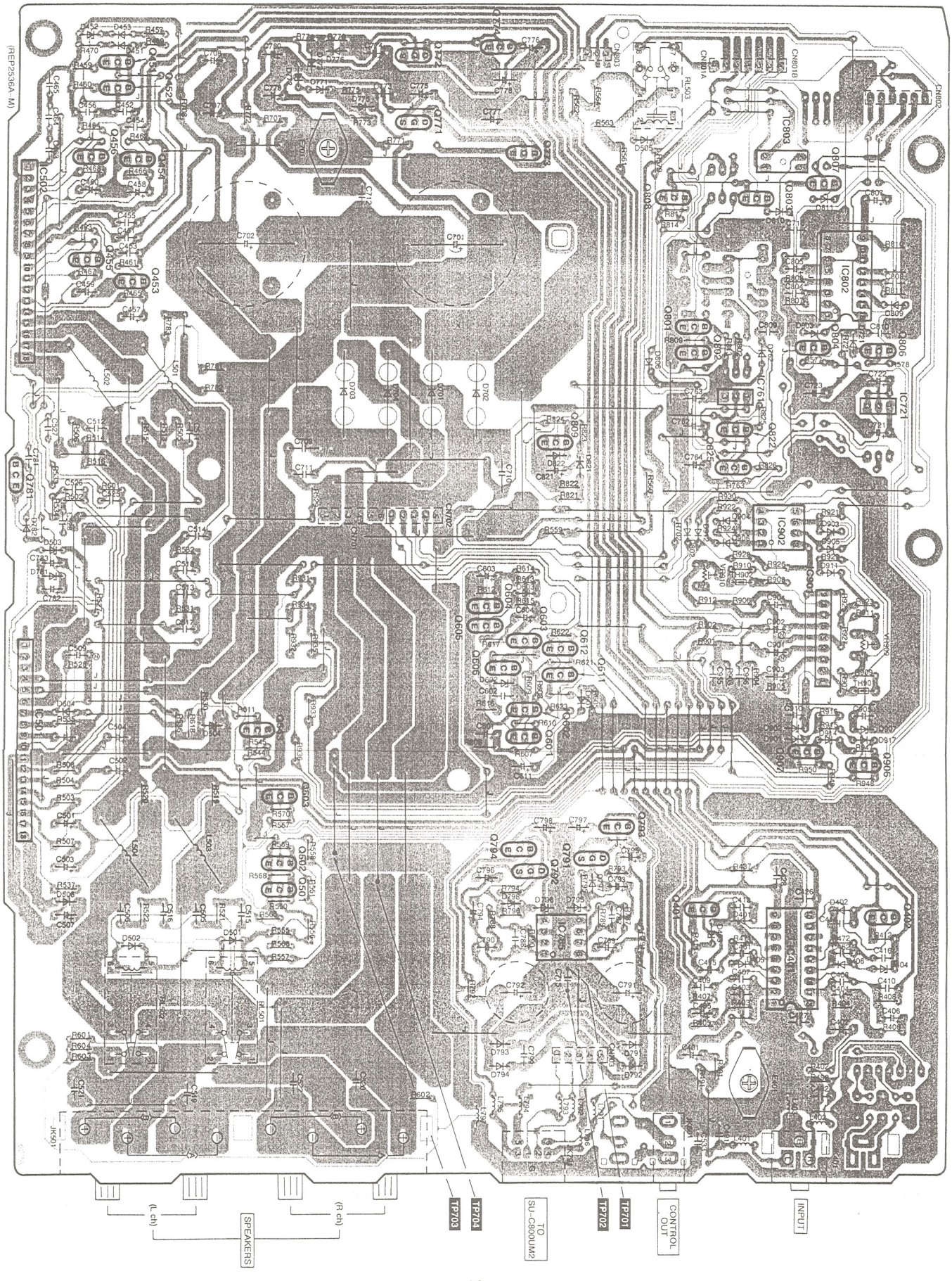



B SP. SWITCH CIRCUIT
(P.C.Board:on page 19)
D LED CIRCUIT
(P.C.Board:on page 19)
C HEADPHONES JACK CIRCUIT
(P.C.Board:on page 19)
E LAMP(RIGHT) CIRCUIT (P.C.Board:on page 21)
F LAMP(LEFT) CIRCUIT (P.C.Board:on page 21)
G LIGHT SWITCH CIRCUIT
(P.C.Board:on page 19)
H POWER SUPPLY CIRCUIT
(P.C.Board:on page 20)
I POWER TRANSFORMER CIRCUIT
(P.C.Board:on page 20)
J POWER SWITCH CIRCUIT
(P.C.Board:on page 19)
JK501 SPEAKERS
JK502 HEADPHONES
FAN MOTOR
Q701 2SC3311AIRTA RELAY DRIVE
AC IN
(230V···· (E,EG) 230-240V···· (EB) 50Hz)
For (E,EG) areas.
For (EB) area.
(POWER METER LIGHT)
(POWER)
ON
OFF
STANDBY

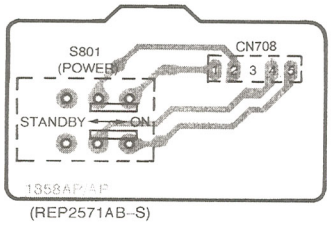
# ■ Printed Circuit Board Diagram

● This circuit board diagram may be modified at any time with the development of new technology.

**A** MAIN P.C.B.

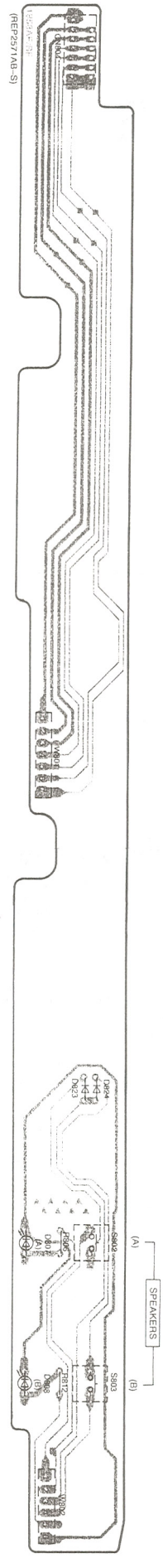


## J POWER SWITCH P.C.B.

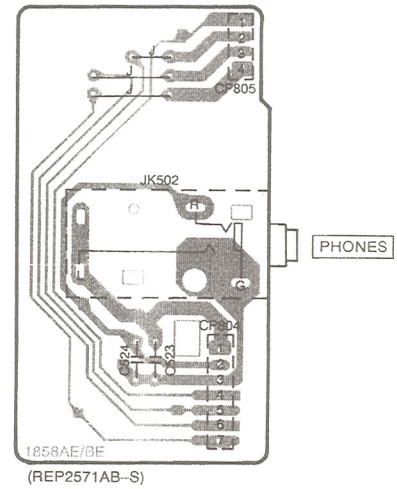



(REP2571AB–S)

## B SP. SWITCH P.C.B.

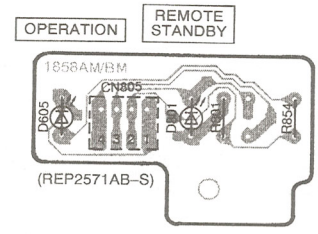



## C HEADPHONES JACK P.C.B.



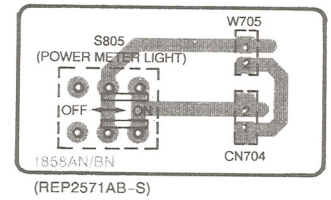

(REP2571AB–S)

## D LED P.C.B.



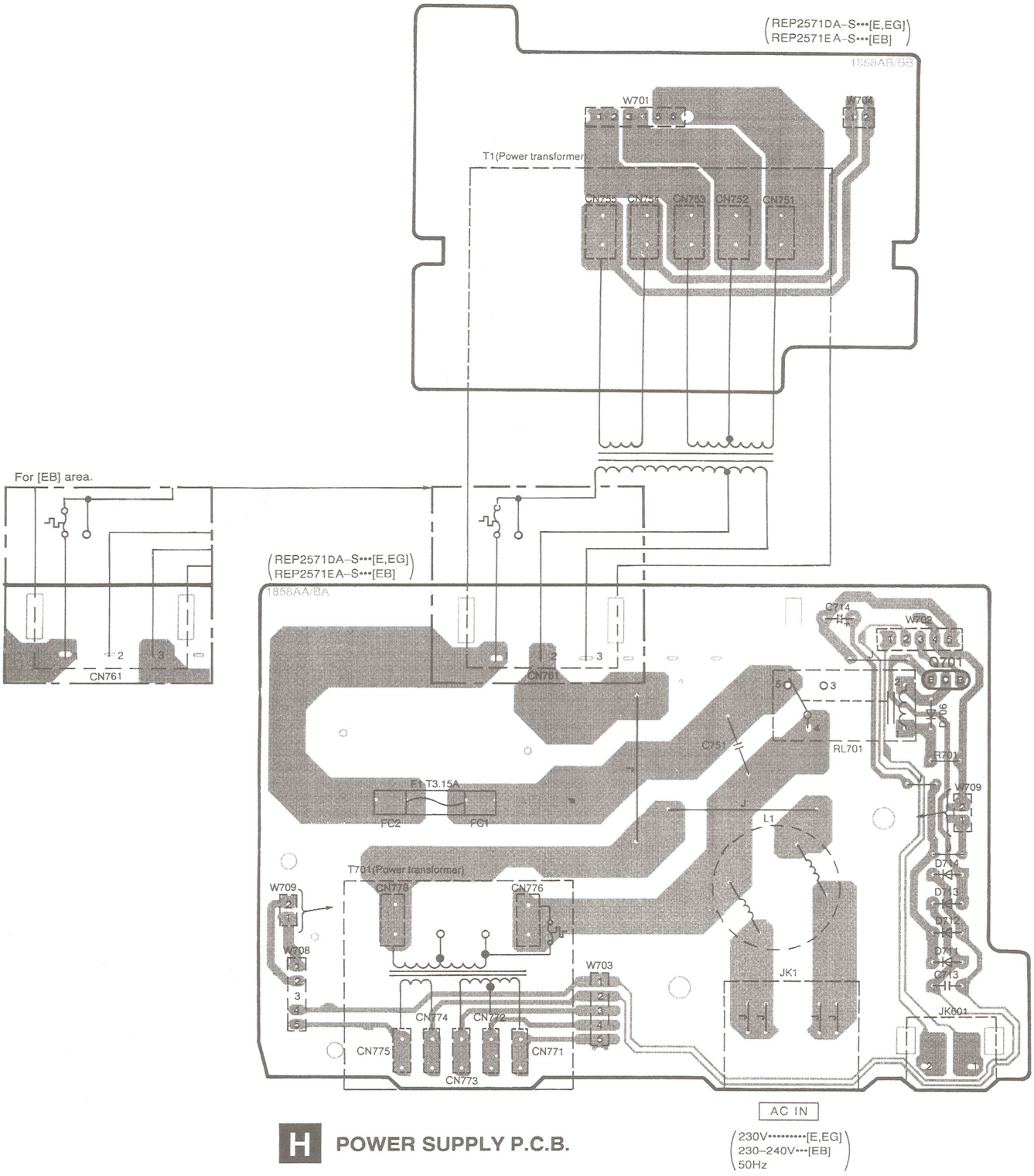

(REP2571AB–S)

## G LIGHT SWITCH P.C.B.



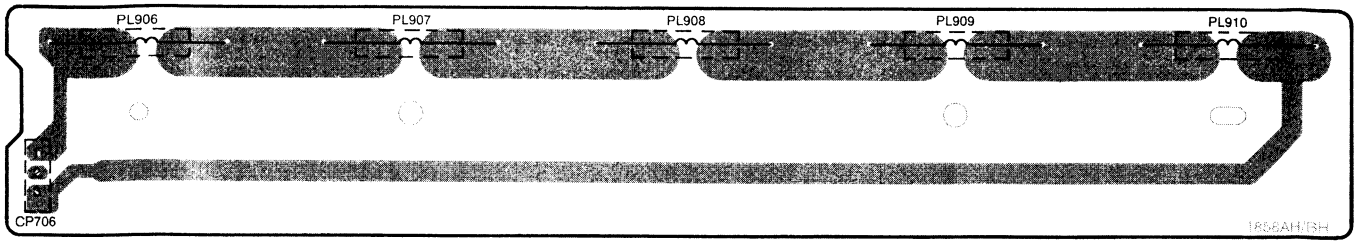

(REP2571AB–S)

## I POWER TRANSFORMER P.C.B.



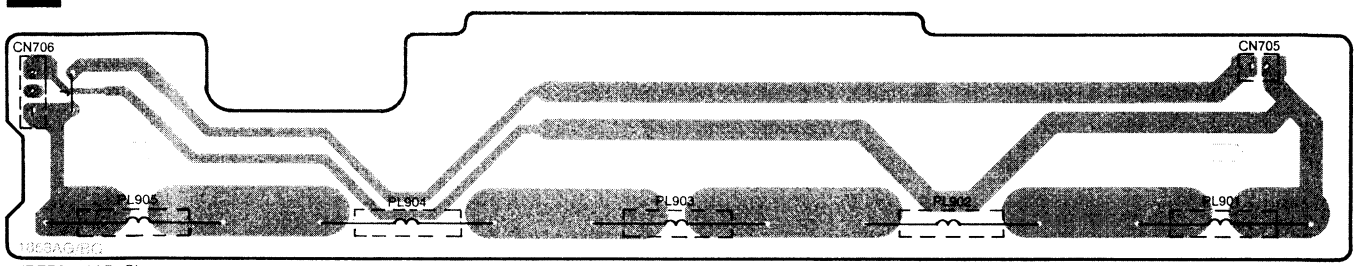

## H POWER SUPPLY P.C.B.

## E LAMP (RIGHT) P.C.B.




(REP2571AB-S)

## F LAMP (LEFT) P.C.B.

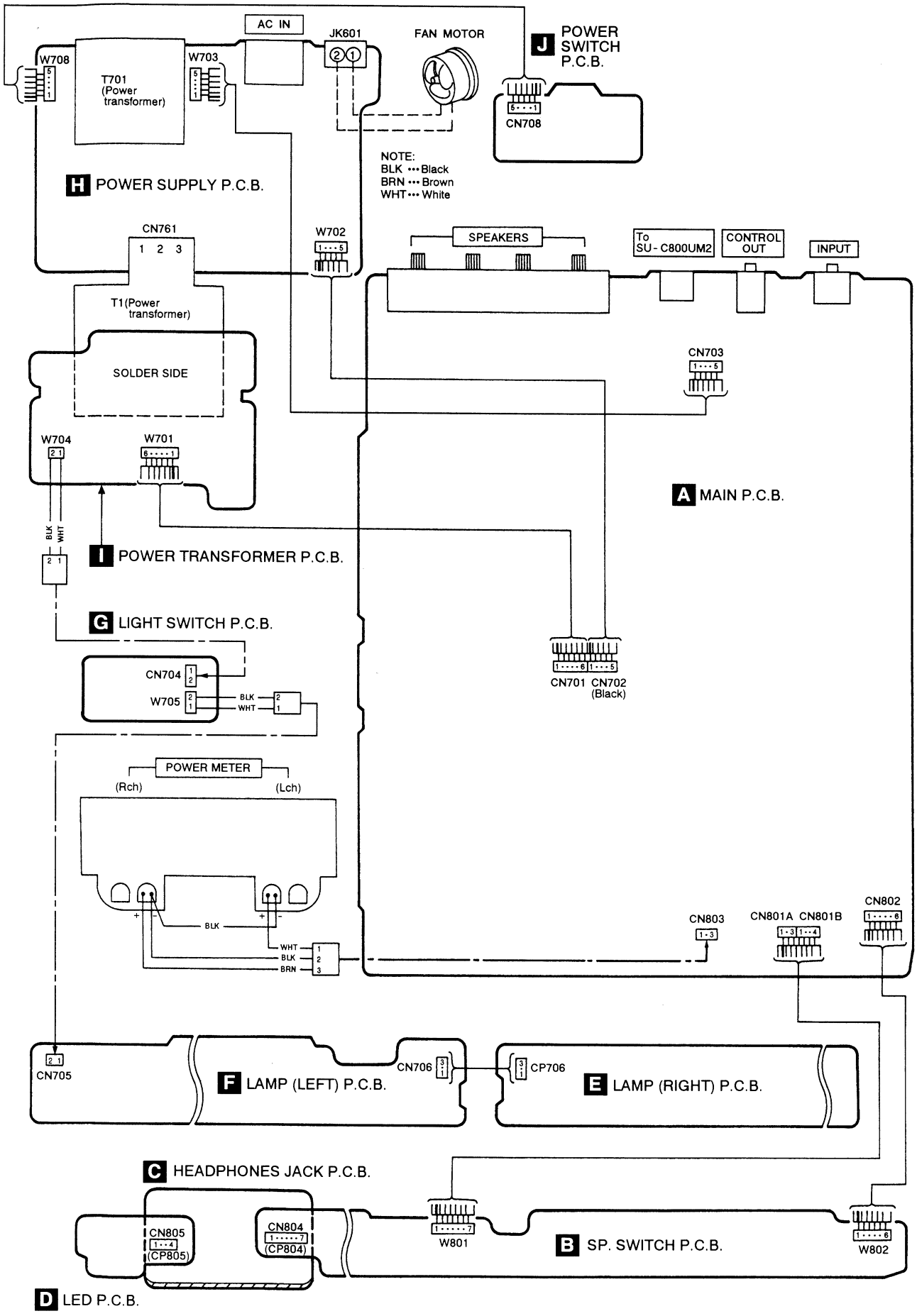



(REP2571AB-S)

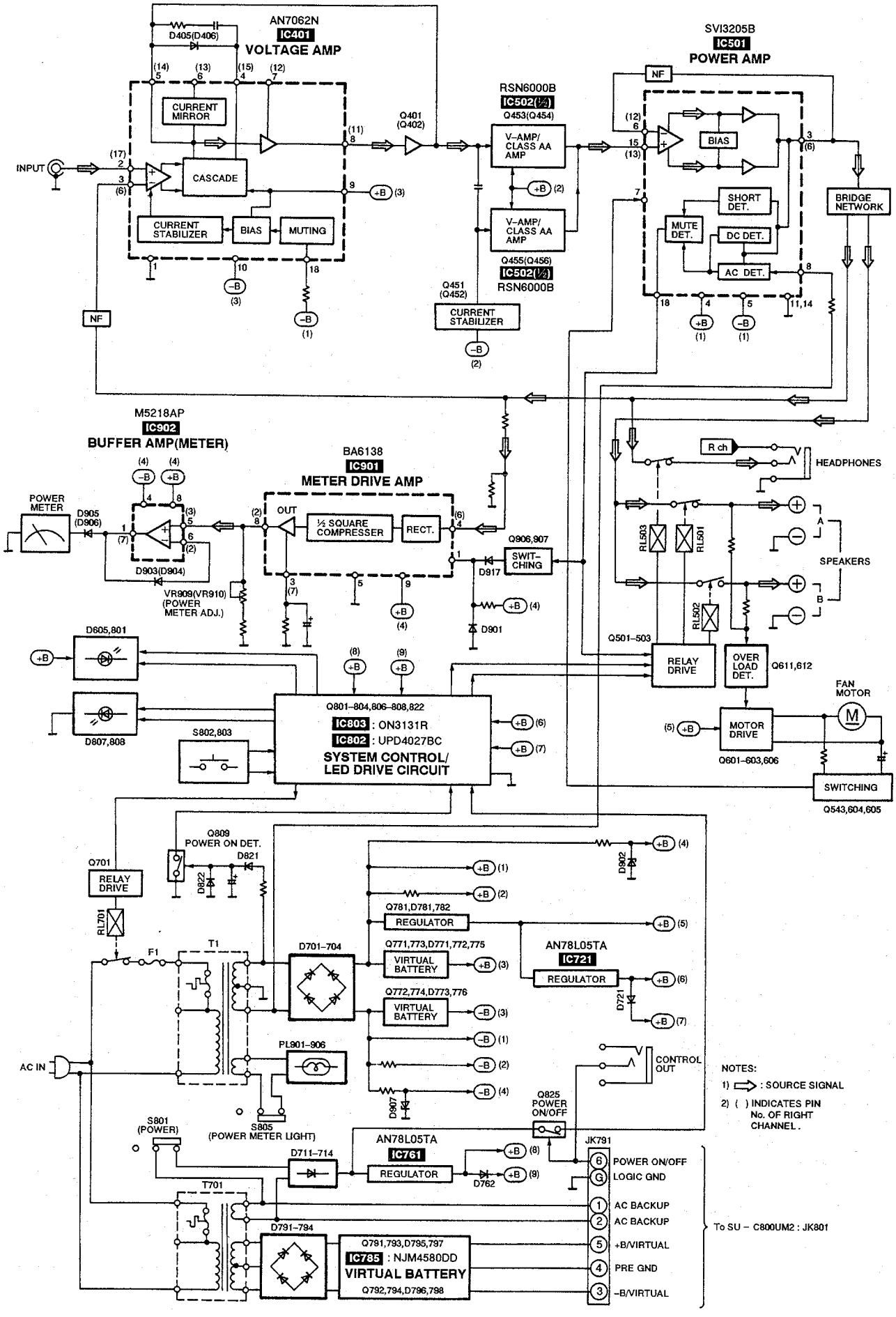
# ■ Type Illustration of IC's, Transistors and Diodes

| | | | | | |
|---|---|---|---|---|---|
| M5218AP<br>NJM4580DD | UPD4027BC | AN7062N | 0N3131R | BA6138 | AN78L05TA |
| RSN6000A<br>SVI3205B | | 2SA992EFPTA<br>2SA1123RSTTA<br>2SC2631RSTTA | 2SA1534AQRTA<br>2SC3940AQSTA | 2SD2374PQAU | 2SJ105GRYTA<br>2SK330GRYTA |
| 2SA1309AIRTA<br>2SC3311AIRTA<br>UN4111<br>UN4215 | | MA165<br>MA167<br>MA29WA | | 1SS291TA | 1SR35200TB |
| P300DLF | MA4036MTA<br>MA4056MTA<br>MA4068L | | MA4100MTA<br>MA4140M<br>MA4160M<br>MA4220MTA | SLR-305VC | |

# ■ Wiring Connection Diagram



# ■ Block Diagram



# ■ Replacement Parts List (Electrical)

**Notes:** *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*[M] Indicates in Remarks columns parts that are supplied by MESA.

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | INTEGRATED CIRCUIT(S) | |
| | | | |
| IC401 | AN7062N | IC | [M] |
| IC501 | SVI3205B | IC | [M]⚠ |
| IC502 | RSN6000A | IC | [M] |
| IC721 | AN78L05TA | IC | [M]⚠ |
| IC761 | AN78L05TA | IC | [M]⚠ |
| IC785 | NJM4580DD | IC | [M] |
| IC802 | UPD4027BC | IC | [M] |
| IC803 | ON3131R | IC | [M] |
| IC901 | BA6138 | IC | [M] |
| IC902 | M5218AP | IC | [M] |
| | | | |
| | | TRANSISTOR(S) | |
| | | | |
| Q401, 402 | 2SA1123RSTTA | TRANSISTOR | [M] |
| Q451, 452 | 2SC2631RSTTA | TRANSISTOR | [M] |
| Q453, 454 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q455, 456 | 2SA1309AIRTA | TRANSISTOR | [M] |
| Q501-503 | 2SA992EFPTA | TRANSISTOR | [M] |
| Q543 | 2SA1309AIRTA | TRANSISTOR | [M] |
| Q601, 602 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q603 | 2SC3940AQSTA | TRANSISTOR | [M] |
| Q604-606 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q611, 612 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q701 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q771 | 2SK330GRYTA | TRANSISTOR | [M]⚠ |
| Q772 | 2SJ105GRYTA | TRANSISTOR | [M]⚠ |
| Q773 | 2SC2631RSTTA | TRANSISTOR | [M]⚠ |
| Q774 | 2SA1123RSTTA | TRANSISTOR | [M]⚠ |
| Q781 | 2SD2374PQAU | TRANSISTOR | [M]⚠ |
| Q791 | 2SK330GRYTA | TRANSISTOR | [M]⚠ |
| Q792 | 2SJ105GRYTA | TRANSISTOR | [M]⚠ |
| Q793 | 2SC3940AQSTA | TRANSISTOR | [M]⚠ |
| Q794 | 2SA1534AQRTA | TRANSISTOR | [M]⚠ |
| Q801, 802 | UN4215 | TRANSISTOR | [M] |
| Q803, 804 | UN4111 | TRANSISTOR | [M] |
| Q806, 807 | UN4111 | TRANSISTOR | [M] |
| Q808 | 2SA1309AIRTA | TRANSISTOR | [M] |
| Q809 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q822 | UN4215 | TRANSISTOR | [M] |
| Q825 | UN4111 | TRANSISTOR | [M] |
| Q906 | 2SC3311AIRTA | TRANSISTOR | [M] |
| Q907 | 2SA1309AIRTA | TRANSISTOR | [M] |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | DIODE(S) | |
| | | | |
| D401, 402 | MA167 | DIODE | [M] |
| D403, 404 | MA4036MTA | DIODE | [M] |
| D405, 406 | MA165 | DIODE | [M] |
| D451 | MA165 | DIODE | [M] |
| D452 | MA4056MTA | DIODE | [M] |
| D453 | MA29WA | DIODE | [M] |
| D501, 502 | MA165 | DIODE | [M] |
| D503, 504 | MA4160M | DIODE | [M]⚠ |
| D505 | MA165 | DIODE | [M] |
| D506 | 1SS291TA | DIODE | [M] |
| D601 | MA165 | DIODE | [M] |
| D602 | MA4068L | DIODE | [M] |
| D603, 604 | MA165 | DIODE | [M] |
| D605 | SLR-305VC | LED | [M] |
| D701-704 | P300DLF | DIODE | [M]⚠ |
| D706 | MA165 | DIODE | [M] |
| D711-714 | 1SR35200TB | DIODE | [M]⚠ |
| D721 | MA165 | DIODE | [M] |
| D762 | MA165 | DIODE | [M] |
| D771, 772 | MA4220MTA | DIODE | [M]⚠ |
| D773 | MA4160M | DIODE | [M]⚠ |
| D775, 776 | MA165 | DIODE | [M] |
| D781 | MA4160M | DIODE | [M]⚠ |
| D782 | MA165 | DIODE | [M] |
| D791-794 | 1SR35200TB | DIODE | [M]⚠ |
| D795, 796 | MA4140M | DIODE | [M]⚠ |
| D797, 798 | MA165 | DIODE | [M] |
| D801 | SLR-305VC | LED | [M] |
| D802, 803 | MA165 | DIODE | [M] |
| D806 | MA165 | DIODE | [M] |
| D807, 808 | SLR-305VC | LED | [M] |
| D809-811 | MA165 | DIODE | [M] |
| D821 | MA167 | DIODE | [M]⚠ |
| D822-824 | MA165 | DIODE | [M] |
| D901 | MA165 | DIODE | [M] |
| D902 | MA4100MTA | DIODE | [M]⚠ |
| D903-906 | MA165 | DIODE | [M] |
| D907 | MA4100MTA | DIODE | [M]⚠ |
| D911, 912 | MA165 | DIODE | [M] |
| D914 | MA165 | DIODE | [M] |
| D917 | MA165 | DIODE | [M] |
| | | | |
| | | VARIABLE RESISTOR(S) | |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| VR909, 910 | EVNDXAA00B23 | V. R | [M] |
| | | | |
| | | THERMISTOR(S) | |
| | | | |
| TH901, 902 | ERTD2ZHL104T | THERMISTOR | [M] |
| | | | |
| | | COIL(S) | |
| | | | |
| L1 | SLQZ650MH49 | COIL | [M]⚠ |
| L401, 402 | RLQA100JT-Y | COIL | [M] |
| L403 | BL02RN1R62T2 | COIL | [M] |
| L501-504 | SLQY18G-10 | COIL | [M] |
| L791-797 | ELEXT1R0KA9 | COIL | [M] |
| | | | |
| | | POWER TRANSFORMER(S) | |
| | | | |
| T1 | RTP1P5B005 | POWER TRANSFORMER | [M]⚠ |
| T701 | RTP1J5B001 | POWER TRANSFORMER | [M]⚠ |
| | | | |
| | | LAMP(S) | |
| | | | |
| PL901-910 | XAMR131 | LAMP | [M] |
| | | | |
| | | FUSE(S) | |
| | | | |
| F1⚠ | XBA2C31TB0 | FUSE, 250V, T3.15A | [M] |
| | | | |
| | | SWITCH(ES) | |
| | | | |
| S801 | RSP2B023-A | SW | [M]⚠ |
| S802, 803 | EVQPTD05Q | SW | [M] |
| S805 | RSP2B023-A | SW | [M] |
| | | | |
| | | CONNECTOR(S) | |
| | | | |
| CN701 | RJS1A6606 | CONNECTOR(6P) | [M] |
| CN702, 703 | RJS1A6605 | CONNECTOR(5P) | [M] |
| CN704 | RJP2G18ZA | CONNECTOR(2P) | [M] |
| CN705 | RJP2G17ZA | CONNECTOR(2P) | [M] |
| CN706 | SJS50382JQH | SOCKET(3P) | [M] |
| CN708 | RJS1A6605 | CONNECTOR(5P) | [M] |
| CN751-755 | RJS1A1101T1 | CONNECTOR(1P) | [M] |
| CN761 | SJS305-1 | CONNECTOR(3P) | [M] |
| CN771-776 | RJS1A1101T1 | CONNECTOR(1P) | [M] |
| CN778 | RJS1A1101T1 | CONNECTOR(1P) | [M] |
| CN802 | RJS1A6606 | CONNECTOR(6P) | [M] |
| CN803 | RJP3G18ZA | CONNECTOR(3P) | [M] |
| CN804 | RJU057W007 | CONNECTOR(7P) | [M] |
| CN805 | RJU057W004 | CONNECTOR(4P) | [M] |
| CN801A | RJS1A6603 | CONNECTOR(3P) | [M] |
| CN801B | RJS1A6604 | CONNECTOR(4P) | [M] |
| CP706 | SJT30345JQ | CONNECTOR(3P) | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| CP804 | RJT057W007-1 | CONNECTOR(7P) | [M] |
| CP805 | RJT057W004-1 | CONNECTOR(4P) | [M] |
| | | | |
| | | EARTH TERMINAL(S) | |
| | | | |
| E401 | SNE1004-2 | EARTH TERMINAL | [M] |
| E701 | SNE1004-2 | EARTH TERMINAL | [M] |
| | | | |
| | | FUSE HOLDER | |
| | | | |
| FC1, 2 | EYF52BC | FUSE HOLDER | [M] |
| | | | |
| | | RELAY(S) | |
| | | | |
| RL501, 502 | RSY0013M-0 | RELAY | [M]⚠ |
| RL503 | RSY0020M-R | RELAY | [M] |
| RL701 | RSY0019M-0 | RELAY | [M]⚠ |
| | | | |
| | | JACK(S) | |
| | | | |
| JK1 | SJS9236-1 | AC INLET | [M]⚠ |
| JK401 | SJF3068-7N | JACK INPUT | [M] |
| JK501 | RJH4801M-2 | SPEAKER TERMINAL | [M] |
| JK502 | RJJ63TA01 | HEADPHONE JACK | [M] |
| JK601 | RJS1A7402-1 | CONNECTOR, FAN MOTOR | [M] |
| JK791 | RJS1D0706 | SOCKET(7P) | [M] |
| JK801 | RJJ33T01 | JACK, CONTROL OUT | [M] |

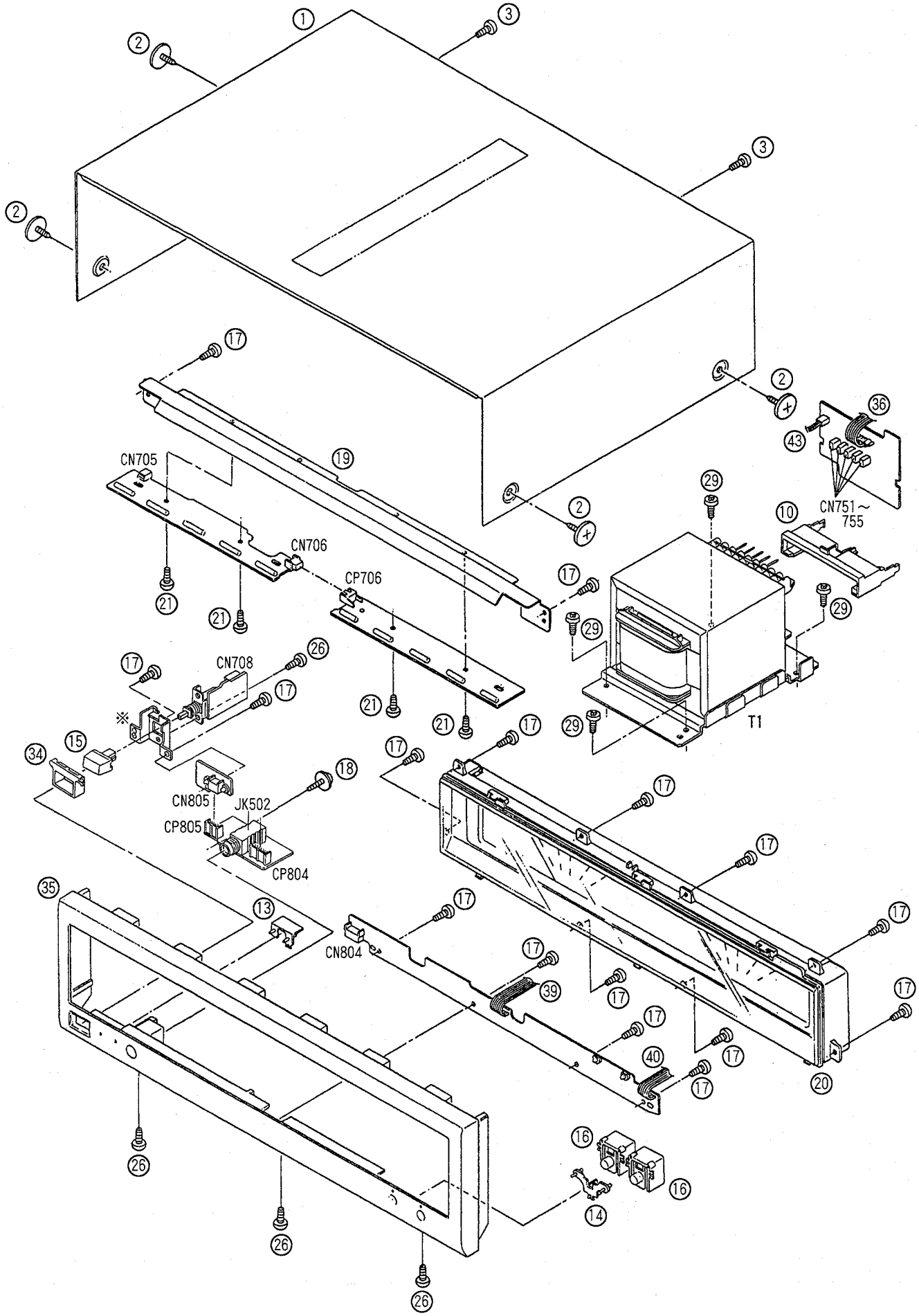
# ■ Replacement Parts List (Resistors and Capacitors)

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

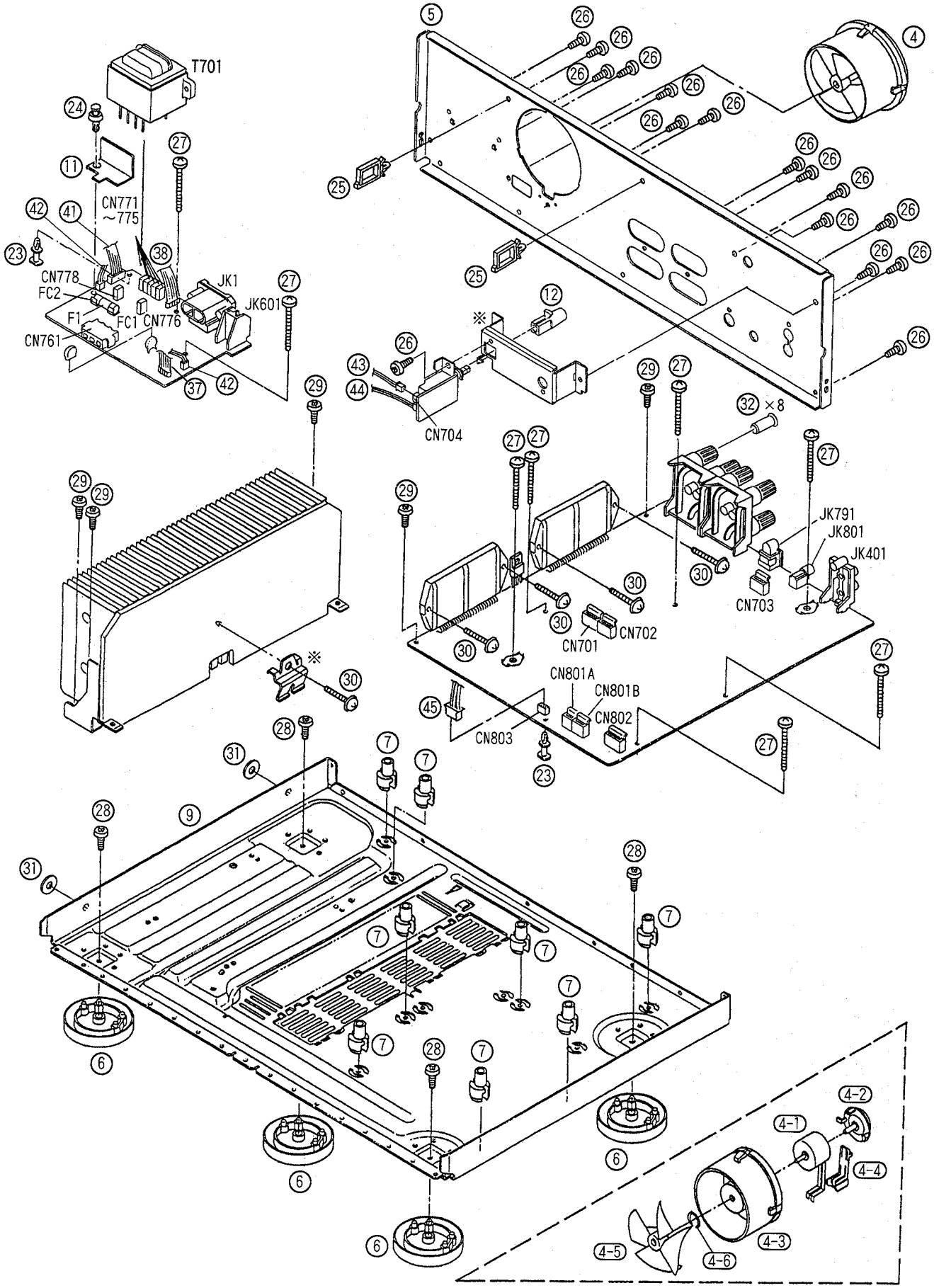
| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| | | |
| | | RESISTORS |
| | | |
| R401, 402 | ERDS2FJ122 | 1/4W 1.2K [M] |
| R403, 404 | ERDS2FJ823 | 1/4W 82K [M] |
| R405, 406 | ERDS2FJ272 | 1/4W 2.7K [M] |
| R407, 408 | ERDS2FJ823 | 1/4W 82K [M] |
| R411, 412 | ERDS2FJ470 | 1/4W 47 [M] |
| R437 | ERDS2FJ473 | 1/4W 47K [M] |
| R457 | ERDS2FJ183 | 1/4W 18K [M] |
| R459, 460 | ERDS2FJ101 | 1/4W 100 [M] |
| R461-464 | ERDS2FJ333 | 1/4W 33K [M] |
| R465-468 | ERDS2FJ101 | 1/4W 100 [M] |
| R469 | ERDS2FJ103 | 1/4W 10K [M] |
| R470 | ERDS2FJ102 | 1/4W 1K [M] |
| R471, 472 | ERDS2FJ561 | 1/4W 560 [M] |
| R491, 492 | ERDS2FJ823 | 1/4W 82K [M] |
| R501, 502 | ERDS2FJ362 | 1/4W 3.6K [M] |
| R503, 504 | ERDS2FJ121 | 1/4W 120 [M] |
| R505, 506 | ERDS2FJ392 | 1/4W 3.9K [M] |
| R507, 508 | ERDS2FJ121 | 1/4W 120 [M] |
| R513-516 | ERDS2FJ100 | 1/4W 10 [M] |
| R519, 520 | ERX1SJ3R3 | 1W 3.3 [M] |
| R521, 522⚠ | ERDS1FJ100 | 1/2W 10 [M] |
| R527 | ERDS2FJ223 | 1/4W 22K [M] |
| R528 | ERDS2FJ684 | 1/4W 680K [M] |
| R529 | ERDS2FJ124 | 1/4W 120K [M] |
| R530⚠ | ERDS1FJ472 | 1/2W 4.7K [M] |
| R531, 532⚠ | ERDS1FJ100 | 1/2W 10 [M] |
| R533, 534 | ERDS2FJ103 | 1/4W 10K [M] |
| R535 | ERDS2FJ562 | 1/4W 5.6K [M] |
| R536 | ERDS2FJ470 | 1/4W 47 [M] |
| R537 | ERDS2FJ101 | 1/4W 100 [M] |
| R544 | ERDS2FJ103 | 1/4W 10K [M] |
| R545 | ERDS2FJ823 | 1/4W 82K [M] |
| R550, 551 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R555-558 | ERG1SJ681 | 1W 680 [M] |
| R559 | ERG1SJ152 | 1W 1.5K [M] |
| R560 | ERG1SJ182 | 1W 1.8K [M] |
| R561, 562 | ERG1SJ151 | 1W 150 [M] |
| R563, 564 | ERG1SJ181 | 1W 180 [M] |
| R565-570 | ERDS2FJ223 | 1/4W 22K [M] |
| R577, 578 | ERDS2FJ682 | 1/4W 6.8K [M] |
| R579 | ERDS2FJ471 | 1/4W 470 [M] |
| R601-604 | ERDS2FJ223 | 1/4W 22K [M] |
| R605 | ERDS2FJ473 | 1/4W 47K [M] |
| R606 | ERDS2FJ104 | 1/4W 100K [M] |
| R607 | ERDS2FJ103 | 1/4W 10K [M] |
| R608 | ERDS2FJ223 | 1/4W 22K [M] |
| R609 | ERDS2FJ332 | 1/4W 3.3K [M] |
| R610 | ERDS2TJ335T | 1/4W 3.3M [M] |
| R611 | ERDS2FJ473 | 1/4W 47K [M] |
| R612 | ERDS2FJ153 | 1/4W 15K [M] |
| R613 | ERDS2FJ473 | 1/4W 47K [M] |
| R614 | ERDS2FJ683 | 1/4W 68K [M] |
| R615 | ERDS2FJ103 | 1/4W 10K [M] |
| R616⚠ | ERDS1FJ220 | 1/2W 22 [M] |
| R617 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R618 | ERDS2FJ103 | 1/4W 10K [M] |
| R621 | ERDS2FJ223 | 1/4W 22K [M] |
| R622 | ERDS2FJ100 | 1/4W 10 [M] |
| R623 | ERDS2FJ823 | 1/4W 82K [M] |
| R701⚠ | ERDS2FJ100 | 1/4W 10 [M] |
| R702 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R707, 708 | ERDS2FJ6R8 | 1/4W 6.8 [M] |
| R721 | ERDS2FJ221 | 1/4W 220 [M] |
| R763 | ERDS2FJ221 | 1/4W 220 [M] |
| R771 | ERDS2FJ470 | 1/4W 47 [M] |
| R772 | ERDS2FJ121 | 1/4W 120 [M] |
| R773 | ERDS2FJ332 | 1/4W 3.3K [M] |
| R774 | ERDS2FJ103 | 1/4W 10K [M] |
| R775, 776 | ERDS2FJ105 | 1/4W 1M [M] |
| R781⚠ | ERDS1FJ472 | 1/2W 4.7K [M] |
| R782, 783⚠ | ERDS1FJ560 | 1/2W 56 [M] |
| R787, 788 | ERDS2FJ102 | 1/4W 1K [M] |
| R789, 790 | ERDS2FJ333 | 1/4W 33K [M] |
| R791, 792 | ERDS2FJ1R0 | 1/4W 1 [M] |
| R793, 794 | ERDS2FJ103 | 1/4W 10K [M] |
| R795, 796 | ERDS2FJ105 | 1/4W 1M [M] |
| R801 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R802 | ERDS2FJ562 | 1/4W 5.6K [M] |
| R806 | ERDS2FJ391 | 1/4W 390 [M] |
| R807, 808 | ERDS2FJ223 | 1/4W 22K [M] |
| R809 | ERDS2FJ823 | 1/4W 82K [M] |
| R810, 811 | ERDS2FJ223 | 1/4W 22K [M] |
| R812 | ERDS2FJ391 | 1/4W 390 [M] |
| R813, 814 | ERDS2FJ223 | 1/4W 22K [M] |
| R817 | ERDS2FJ103 | 1/4W 10K [M] |
| R821 | ERDS2FJ103 | 1/4W 10K [M] |
| R822 | ERDS2FJ222 | 1/4W 2.2K [M] |
| R823 | ERDS2FJ562 | 1/4W 5.6K [M] |
| R824 | ERDS2FJ154 | 1/4W 150K [M] |
| R825 | ERDS2FJ223 | 1/4W 22K [M] |
| R826 | ERDS2FJ102 | 1/4W 1K [M] |
| R854 | ERDS2FJ391 | 1/4W 390 [M] |
| R901, 902⚠ | ERDS1FJ472 | 1/2W 4.7K [M] |
| R903, 904 | ERDS2FJ271 | 1/4W 270 [M] |
| R905, 906 | ERDS2TJ155 | 1/4W 1.5M [M] |
| R907, 908 | ERDS2FJ682 | 1/4W 6.8K [M] |
| R909, 910 | ERDS2FJ103 | 1/4W 10K [M] |
| R911, 912 | ERDS2FJ821 | 1/4W 820 [M] |
| R915 | ERDS2FJ103 | 1/4W 10K [M] |
| R916 | ERDS2FJ104 | 1/4W 100K [M] |
| R921, 922 | ERDS2FJ123 | 1/4W 12K [M] |
| R923, 924 | ERDS2FJ154 | 1/4W 150K [M] |
| R925, 926 | ERDS2FJ223 | 1/4W 22K [M] |
| R927, 928 | ERDS2FJ102 | 1/4W 1K [M] |
| R929, 930 | ERDS2FJ121 | 1/4W 120 [M] |
| R931-936 | ERG1SJ681 | 1W 680 [M] |
| R947, 948 | ERDS2FJ103 | 1/4W 10K [M] |
| R949, 950 | ERDS2FJ223 | 1/4W 22K [M] |
| | | |
| | | CAPACITORS |
| | | |
| C401, 402 | ECA1HPXS4R7B | 50V 4.7U [M] |
| C403, 404 | ECKD1H471KB | 50V 470P [M] |
| C405, 406 | ECA1EPXS470B | 25V 47U [M] |
| C407, 408 | ECBT1H820KB5 | 50V 82P [M] |
| C409, 410 | ECCR2H220J5 | 500V 22P [M] |
| C413, 414 | ECCV2H070D | 500V 7P [M] |
| C415, 416 | ECBT1H102KB5 | 50V 1000P [M] |
| C426 | ECQB1H102JF3 | 50V 1000P [M] |
| C427 | ECQV1H223JZ3 | 50V 0.022U [M] |
| C428 | ECHR1H103JZ3 | 50V 0.01U [M] |
| C451, 452 | ECKR1H333ZF5 | 50V 0.033U [M] |
| C453-456 | ECCV2H680K | 500V 68P [M] |
| C457-460 | RCE1HKA3R3BG | 50V 3.3U [M] |
| C461, 462 | ECBT1H102KB5 | 50V 1000P [M] |
| C463-465 | ECBT1H104ZF5 | 50V 0.1U [M] |
| C491, 492 | ECKT1H101KB | 50V 100P [M] |
| C501-504 | ECA0JPXS101B | 6.3V 100U [M] |
| C505, 506 | ECQV1H473JM3 | 50V 0.047U [M] |
| C507 | ECA1EM101B | 25V 100U [M] |
| C508 | ECA1HM470B | 50V 47U [M] |
| C509 | ECEA1HN100SB | 50V 10U [M] |
| C511, 512 | ECBT1H560J5 | 50V 56P [M] |
| C513-518 | ECQV1H473JM3 | 50V 0.047U [M] |
| C519-522 | ECQB1H223JF3 | 50V 0.022U [M] |
| C523, 524 | ECBT1H102KB5 | 50V 1000P [M] |
| C525, 526 | ECBT1C272KR5 | 16V 2700P [M] |
| C527, 528 | ECBT1H181KB5 | 50V 180P [M] |
| C533 | ECBT1C103NS5 | 16V 0.01U [M] |
| C601 | ECEA1HKA2R2B | 50V 2.2U [M] |
| C602 | ECBT1E223ZF | 25V 0.022U [M] |
| C603 | ECEA0JKA221B | 6.3V 220U [M] |
| C604 | RCE1CKA100BG | 16V 10U [M] |
| C611 | ECEA0JKA221B | 6.3V 220U [M] |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| C701, 702⚠ | ECETX1J103WX | 63V 10000U [M] |
| C707, 708 | ECA1JPXH560E | 63V 56U [M] |
| C709, 710 | ECQE2334KFW | V 0.33U [M] |
| C711 | ECQE2104KF3 | 250V 0.1U [M] |
| C712 | ECBT1C103NS5 | 16V 0.01U [M] |
| C713 | ECKR1H103ZF5 | 50V 0.01U [M] |
| C714⚠ | ECA1EM102E | 25V 1000U [M] |
| C715, 716 | ECBT1C103NS5 | 16V 0.01U [M] |
| C721 | ECEA1EKA100B | 25V 10U [M] |
| C722 | RCE1CKA100BG | 16V 10U [M] |
| C723 | ECA0JM222B | 6.3V 2200U [M] |
| C751⚠ | ECKWNS102MBM | 400V 1000P [M] |
| C762 | ECEA1EKA100B | 25V 10U [M] |
| C763 | RCE1CKA100BG | 16V 10U [M] |
| C764 | ECA0JM222B | 6.3V 2200U [M] |
| C773, 774 | ECA1HBX3R3B | 50V 3.3U [M] |
| C775 | ECA1HPXS470B | 50V 47U [M] |
| C776 | ECA1EPXS470B | 25V 47U [M] |
| C777 | ECA1JPX470TB | 63V 47U [M] |
| C778 | ECA1EPX470TB | 25V 47U [M] |
| C779, 780 | ECA2APXS100B | 100V 10U [M] |
| C781 | ECBT1H102KB5 | 50V 1000P [M] |
| C782, 783 | ECEA1EKA100B | 25V 10U [M] |
| C787, 788 | ECCR1H221J5 | 50V 220P [M] |
| C789, 790 | ECA1HPXS100B | 50V 10U [M] |
| C791, 792⚠ | ECA1VPT102ZE | 35V 1000U [M] |
| C793, 794 | ECA1HBX3R3B | 50V 3.3U [M] |
| C795-798 | ECA1EPXS470B | 25V 47U [M] |
| C799 | ECKR2H103ZU | 500V 0.01U [M] |
| C804 | ECBT1H104ZF5 | 50V 0.1U [M] |
| C805 | RCE1CKA100BG | 16V 10U [M] |
| C807 | RCE1CKA100BG | 16V 10U [M] |
| C808-810 | ECBT1H104ZF5 | 50V 0.1U [M] |
| C821⚠ | ECEA1EKA100B | 25V 10U [M] |
| C901, 902 | ECEA1EKN3R3B | 25V 3.3U [M] |
| C903, 904 | ECEA1HKA2R2B | 50V 2.2U [M] |
| C905 | RCE1HKA4R7BG | 50V 4.7U [M] |
| C910 | RCE1HKA4R7BG | 50V 4.7U [M] |
| C955, 956 | ECBT1C152JR5 | 16V 1500P [M] |

# ■ Cabinet Parts Location




We do not supply the items of the parts marked ※.


T701
CN771
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CN778
FC2
F1
FC1
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JK1
JK601
CN761
CN704
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JK801
JK401
CN703
CN701
CN702
CN801A
CN801B
CN802
CN803
×8
4-1
4-2
4-3
4-4
4-5
4-6

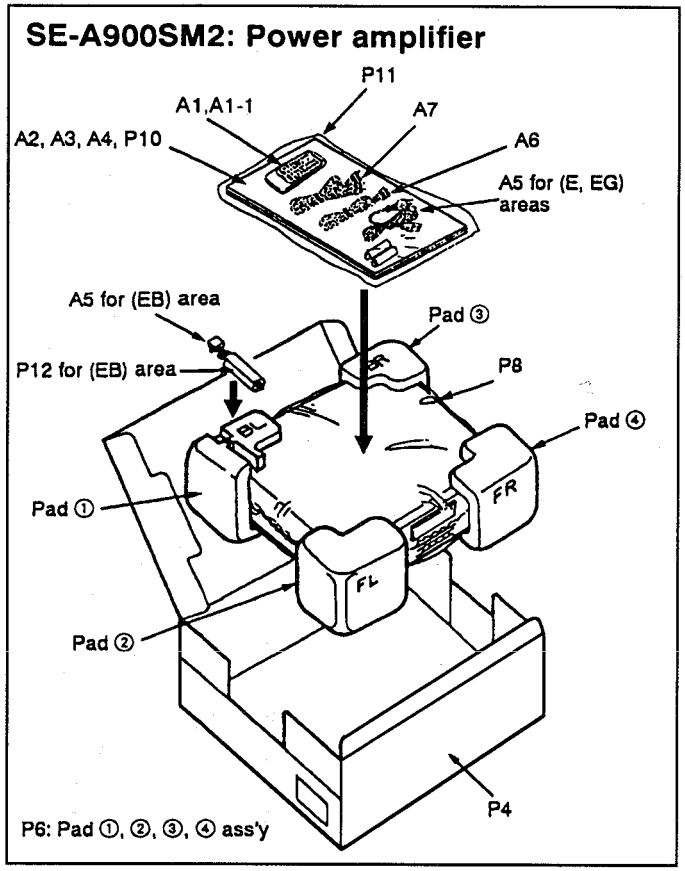
# ■ Replacement Parts List (Cabinet, Accessories and Packaging)

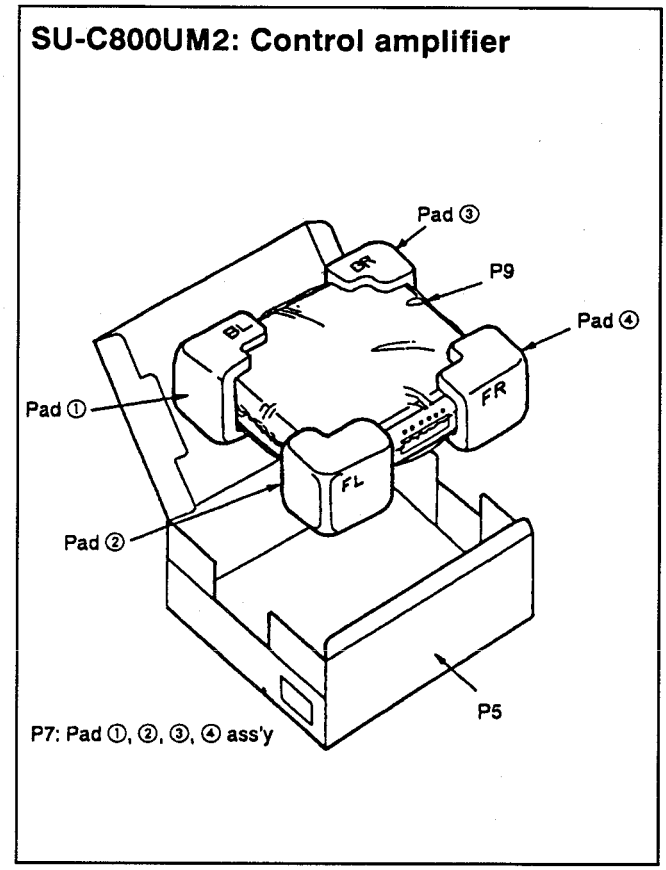
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | CABINET PARTS | |
| | | | |
| 1 | RKM0219F-K | TOP CABINET | [M] |
| 2 | SNE2129-1 | SCREW | [M] |
| 3 | XTBS3+8JFZ1 | SCREW | [M] |
| 4 | REM0020-1 | FAN ASS'Y | [M] |
| 4-1 | MDN-4RB4MRC | FAN MOTOR | [M] |
| 4-2 | RMQ0208-K | FAN MOTOR COVER | [M] |
| 4-3 | RMQ0209-K | FAN CASE | [M] |
| 4-4 | RMQ0212-K | FAN TERMINAL | [M] |
| 4-5 | SHE232-1 | FAN | [M] |
| 4-6 | SUS271 | SPRING | [M] |
| 5 | RGR0227J-AA | REAR PANEL | [M] (E/EG) |
| 5 | RGR0227J-BA | REAR PANEL | [M] (EB) |
| 6 | RKA0053-A | FOOT | [M] |
| 7 | RKQ0089-2 | P.C.B. SUPPORT | [M] |
| 9 | RMK0200-3 | CHASSIS | [M] |
| 10 | RMN0217 | HOLDER | [M] |
| 11 | RMZ0354 | COVER | [M] |
| 12 | RGU0609-K | BUTTON, LIGHT | [M] |
| 13 | RGL0301-Q | PANEL LIGHT A | [M] |
| 14 | RGL0302-Q | PANEL LIGHT B | [M] |
| 15 | RGU0890-K | BUTTON, POWER | [M] |
| 16 | RGU1271-K | BUTTON, SPEAKER | [M] |
| 17 | RHD26017 | SCREW | [M] |
| 18 | RHD26018 | SCREW | [M] |
| 19 | RMA0869 | ANGLE | [M] |
| 20 | RSE0006-1 | METER ASS'Y | [M] |
| 21 | XTBS26+8J | SCREW | [M] |
| 23 | SHR8006 | SPACER | [M] |
| 24 | SHR9112 | LATCH | [M] |
| 25 | SHR9814 | SPACER | [M] |
| 26 | XTBS3+8JFZ1 | SCREW | [M] |
| 27 | XTB3+20JFZ | SCREW | [M] |
| 28 | XTB3+6G | SCREW | [M] |
| 29 | XTB3+8JFZ | SCREW | [M] |
| 30 | XTW3+15T | SCREW | [M] |
| 31 | RMG0332-K | RUBBER | [M] |
| 32 | RMR1110-K | COVER | [M] |
| 34 | RMR1096-K | BUTTON, SLEEP | [M] |
| 35 | RFKGEA900SME | FRONT PANEL ASS'Y | [M] |
| 36 | RWJ3906440QQ | FLAT CABLE(6P) (W701) | [M] |
| 37 | RWJ1805480QQ | FLAT CABLE(5P) (W702) | [M] |
| 38 | RWJ3905390QQ | FLAT CABLE(5P) (W703) | [M] |
| 39 | RWJ1807220KX | FLAT CABLE(7P) (W801) | [M] |
| 40 | RWJ1806090KX | FLAT CABLE(6P) (W802) | [M] |
| 41 | RFKEEA1000EA | WIRE ASS'Y(5P) (W708) | [M] |
| 42 | RFKEEA1000EB | WIRE ASS'Y(2P) (W709) | [M] |
| 43 | RFKEEA1000EC | WIRE ASS'Y(2P) (W704) | [M] |
| 44 | RFKEEA1000ED | WIRE ASS'Y(2P) (W705) | [M] |
| 45 | REX0741 | WIRE ASS'Y(3P) | [M] |

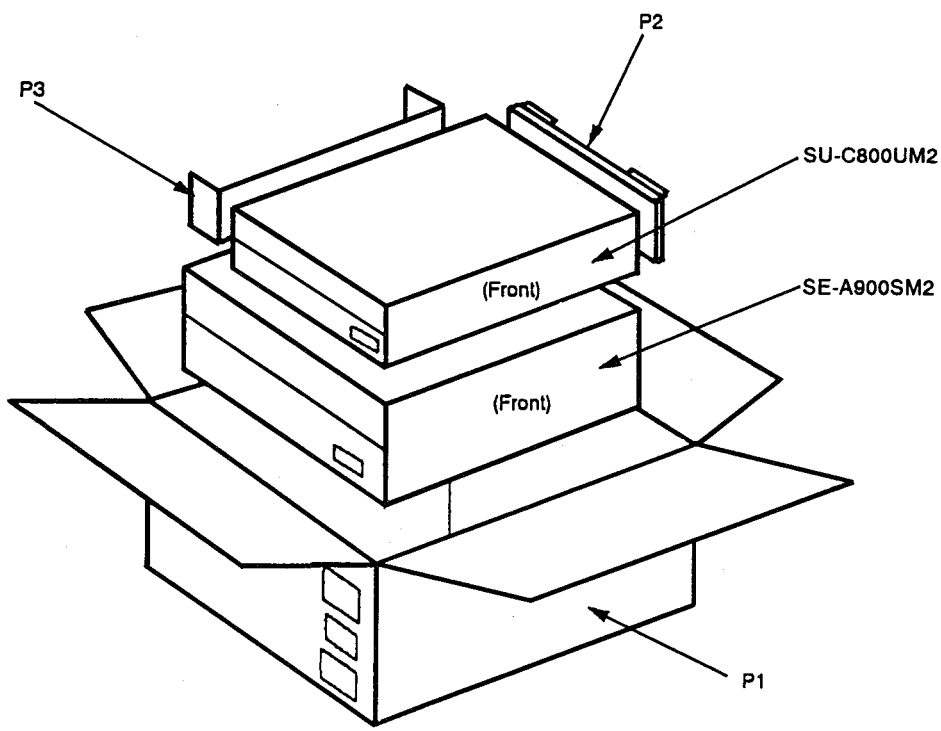
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | PACKING MATERIALS | |
| | | | |
| P1 | RPG3539 | PACKING CASE | [M] (EB/EG) |
| P1 | RPG3538 | PACKING CASE | [M] (E) |
| P2 | RPQ0573 | SPACER | [M] |
| P3 | RPQ0822 | SPACER | [M] |
| P4 | RPG3540 | PACKING CASE | [M] |
| P5 | RPG3544 | PACKING CASE(SU-C800UM2) | [M] |
| P6 | RPN0752 | PAD | [M] |
| P7 | RPN0917 | PAD(SU-C800UM2) | [M] |
| P8 | SPP730 | SHEET | [M] |
| P9 | SPP756 | SHEET(SU-C800UM2) | [M] |
| P10 | RPQ0164 | PAD | [M] |
| P11 | RPF0139 | PROTECTION COVER | [M] |
| P12 | RPH0032 | MIRROR SHEET | [M] (EB) |
| | | | |
| | | ACCESSORIES | |
| | | | |
| A1 | RAK-SU228WH | REMOTE CONTROL TRANSMITTER | [M] |
| A1-1 | RKK0057-K | BATTERY COVER | [M] |
| A2 | RQA0117 | WARRANTY CARD | [M] |
| A3 | RQCB0169 | SERVICE CENTER LIST | [M] |
| A4<IA> | RQT4016-E | INSTRUCTION MANUAL | [M] (E) |
| A4<IB> | RQT4019-R | INSTRUCTION MANUAL | [M] (E) |
| A4<IC> | RQT4015-B | INSTRUCTION MANUAL | [M] (EB) |
| A4<ID> | RQT4017-D | INSTRUCTION MANUAL | [M] (EG) |
| A4<IE> | RQT4018-H | INSTRUCTION MANUAL | [M] (EG) |
| A5 | RJA0019-2K | AC POWER SUPPLY CORD | [M] (E/EG) |
| A5 | RJA0049-K | AC POWER SUPPLY CORD | [M] (EB) |
| A6 | RJL6D001B10 | AMP. CONNECTION CABLE | [M] |
| A7 | SJP2276 | PIN CORD | [M] |
| | | | |
| | | | |

NOTE: The "<IA>, <IB>, <IC>, <ID>, <IE>"marks in Remarks indicate language of instruction manual.
<IA>: English, Spanish, Swedish
<IB>: Russian, Polish, Czeco
<IC>: English
<ID>: German, Italian, French
<IE>: Dutch, Denish

# ■ Packaging



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